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Administration

# Petroleum Supply Monthly

with data for September 2018

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## Preface

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The Petroleum Supply Monthly (PSM) is the monthly component of a series of three publications produced by the Office of Petroleum and Biofuels Statistics of the U.S. Energy Information Administration (EIA). The other two components are the Weekly Petroleum Status Report (WPSR) and the Petroleum Supply Annual (PSA). Together these publications present comprehensive petroleum and biofuel supply data on a weekly, monthly and annual basis.

Data presented in the PSM describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply. Included are: petroleum refiners, motor gasoline blenders, oxygenate producers, operators of natural gas processing plants and fractionators, inter-PAD District transporters, importers, and major inventory holders of crude oil, petroleum products, and biofuels. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

### Scope of data

The PSM presents statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District levels, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources including federal and state agencies.

### Sections

- U.S. supply and disposition of crude oil, petroleum products, and biofuels
- Regional supply and disposition of crude oil, petroleum products, and biofuels
- Crude oil supply and disposition and production by state
- Natural Gas Processing
- Refinery Operations
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**Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, September 2018**  
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments <sup>1</sup>	Stock Change <sup>2</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>3</sup>	
<b>Crude Oil<sup>4</sup></b>	<b>344,239</b>	<b>--</b>	<b>--</b>	<b>227,663</b>	<b>10,420</b>	<b>9,285</b>	<b>509,567</b>	<b>63,470</b>	<b>0</b>	<b>1,076,150</b>
<b>Hydrocarbon Gas Liquids</b>	<b>138,936</b>	<b>-623</b>	<b>19,510</b>	<b>5,149</b>	<b>--</b>	<b>11,595</b>	<b>16,952</b>	<b>49,189</b>	<b>85,236</b>	<b>224,777</b>
Natural Gas Liquids	138,936	-623	10,539	4,524	--	11,515	16,952	49,189	75,720	218,576
Ethane	54,411	--	149	--	--	1,625	--	8,487	44,448	46,895
Propane	44,091	--	8,883	3,299	--	8,624	--	26,334	21,315	75,147
Normal Butane	12,119	--	1,803	929	--	655	5,566	8,798	-168	66,251
Isobutane	11,700	--	-296	289	--	348	6,398	112	4,835	9,944
Natural Gasoline	16,615	-623	--	7	--	263	4,988	5,459	5,289	20,339
Refinery Olefins	--	--	8,971	625	--	80	--	--	9,516	6,201
Ethylene	--	--	3	--	--	0	--	--	3	0
Propylene	--	--	8,821	407	--	199	--	--	9,029	3,874
Butylene	--	--	162	218	--	-148	--	--	528	2,216
Isobutylene	--	--	-15	--	--	29	--	--	-44	111
<b>Other Liquids</b>	<b>--</b>	<b>36,811</b>	<b>--</b>	<b>39,660</b>	<b>3,832</b>	<b>5,936</b>	<b>61,348</b>	<b>18,646</b>	<b>-5,626</b>	<b>337,296</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	36,815	--	755	4,228	1,556	35,840	4,403	0	30,454
Hydrogen	--	--	--	--	6,731	--	6,731	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,298	--	115	-285	56	--	2,072	0	1,502
Renewable Fuels (including Fuel Ethanol)	--	34,517	--	636	-2,242	1,493	29,087	2,331	0	28,927
Fuel Ethanol <sup>5</sup>	--	30,667	--	35	423	1,589	27,395	2,141	0	24,422
Renewable Fuels Except Fuel Ethanol	--	3,850	--	601	-2,665	-96	1,692	190	0	4,505
Other Hydrocarbons	--	--	--	4	25	7	22	--	0	25
Unfinished Oils	--	--	--	20,933	--	2,323	13,164	11,030	-5,584	91,955
Motor Gasoline Blend.Comp. (MGBC) <sup>5</sup>	--	-4	--	17,972	-396	2,073	12,286	3,213	0	214,857
Reformulated	--	--	--	4,339	6,922	3,919	7,334	8	0	51,403
Conventional	--	-4	--	13,633	-7,318	-1,846	4,952	3,205	0	163,454
Aviation Gasoline Blend. Comp.	--	--	--	--	--	-16	58	--	-42	30
<b>Finished Petroleum Products</b>	<b>--</b>	<b>156</b>	<b>602,561</b>	<b>24,066</b>	<b>2,454</b>	<b>13,273</b>	<b>--</b>	<b>97,032</b>	<b>518,932</b>	<b>293,377</b>
Finished Motor Gasoline	--	156	297,793	2,818	-27	1,502	--	25,711	273,528	24,801
Reformulated	--	--	96,843	--	-7,681	8	--	--	89,154	52
Conventional	--	156	200,950	2,818	7,655	1,494	--	25,711	184,374	24,749
Finished Aviation Gasoline	--	--	405	4	--	125	--	--	284	1,014
Kerosene-Type Jet Fuel	--	--	55,687	5,435	--	5,106	--	5,009	51,007	46,891
Kerosene	--	--	678	--	--	666	--	--	12	2,514
Distillate Fuel Oil <sup>5</sup>	--	--	156,888	5,147	2,481	5,023	--	39,296	120,197	137,060
15 ppm sulfur and under	--	--	147,718	4,701	2,481	4,211	--	34,830	115,859	123,321
Greater than 15 ppm to 500 ppm sulfur	--	--	3,361	40	--	94	--	2,330	977	4,457
Greater than 500 ppm sulfur	--	--	5,809	406	--	718	--	2,136	3,361	9,282
Residual Fuel Oil <sup>6</sup>	--	--	12,879	6,795	--	791	--	8,021	10,862	28,603
Less than 0.31 percent sulfur	--	--	2,177	671	--	41	--	NA	NA	1,910
0.31 to 1.00 percent sulfur	--	--	1,942	454	--	752	--	NA	NA	5,045
Greater than 1.00 percent sulfur	--	--	8,760	5,670	--	-2	--	NA	NA	21,640
Petrochemical Feedstocks	--	--	10,372	512	--	105	--	--	10,779	3,464
Naphtha for Petro. Feed. Use	--	--	7,233	401	--	105	--	--	7,529	2,378
Other Oils for Petro. Feed. Use	--	--	3,139	111	--	0	--	--	3,250	1,086
Special Naphthas	--	--	1,014	354	--	27	--	--	1,341	1,114
Lubricants	--	--	5,260	1,338	--	1,452	--	2,951	2,195	13,512
Waxes	--	--	121	247	--	21	--	151	196	683
Petroleum Coke	--	--	26,529	51	--	-1,116	--	15,095	12,601	8,230
Marketable	--	--	19,383	51	--	-1,116	--	15,095	5,455	8,230
Catalyst	--	--	7,146	--	--	--	--	--	7,146	--
Asphalt and Road Oil	--	--	10,593	1,364	--	-469	--	772	11,654	24,836
Still Gas	--	--	21,469	--	--	--	--	--	21,469	--
Miscellaneous Products	--	--	2,873	1	--	40	--	26	2,808	655
<b>Total</b>	<b>483,175</b>	<b>36,344</b>	<b>622,071</b>	<b>296,538</b>	<b>16,706</b>	<b>40,089</b>	<b>587,867</b>	<b>228,337</b>	<b>598,542</b>	<b>1,931,600</b>

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

<sup>1</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>4</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>5</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

**Table 2. U.S. Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-September 2018**  
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments <sup>1</sup>	Stock Change <sup>2</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>3</sup>	
<b>Crude Oil<sup>4</sup></b>	<b>2,914,860</b>	--	--	<b>2,159,857</b>	<b>51,111</b>	<b>-7,806</b>	<b>4,630,449</b>	<b>503,185</b>	<b>0</b>	<b>1,076,150</b>
<b>Hydrocarbon Gas Liquids</b>	<b>1,169,471</b>	<b>-5,737</b>	<b>193,747</b>	<b>50,160</b>	--	<b>33,873</b>	<b>143,458</b>	<b>436,415</b>	<b>793,895</b>	<b>224,777</b>
Natural Gas Liquids	1,169,471	-5,737	114,141	43,442	--	33,752	143,458	436,415	707,692	218,576
Ethane	459,696	--	1,668	--	--	-8,724	--	69,926	400,162	46,895
Propane	373,275	--	83,174	35,582	--	12,800	--	259,708	219,523	75,147
Normal Butane	94,611	--	32,616	4,942	--	27,930	38,405	52,520	13,314	66,251
Isobutane	105,868	--	-3,317	2,877	--	1,551	59,767	1,443	42,667	9,944
Natural Gasoline	136,021	-5,737	--	41	--	195	45,286	52,818	32,026	20,339
Refinery Olefins	--	--	79,606	6,718	--	121	--	--	86,203	6,201
Ethylene	--	--	33	--	--	0	--	--	33	0
Propylene	--	--	78,627	5,063	--	-968	--	--	84,658	3,874
Butylene	--	--	1,000	1,655	--	1,008	--	--	1,647	2,216
Isobutylene	--	--	-54	--	--	81	--	--	-135	111
<b>Other Liquids</b>	--	<b>340,506</b>	--	<b>372,794</b>	<b>3,468</b>	<b>8,841</b>	<b>566,327</b>	<b>141,901</b>	<b>-300</b>	<b>337,296</b>
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	340,542	--	8,808	30,169	382	328,464	50,673	0	30,454
Hydrogen	--	--	--	--	60,671	--	60,671	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	21,969	--	2,565	-5,701	56	--	18,777	0	1,502
Renewable Fuels (including Fuel Ethanol)	--	318,573	--	6,165	-24,990	348	267,505	31,895	0	28,927
Fuel Ethanol <sup>5</sup>	--	286,770	--	339	-4,234	1,374	251,653	29,848	0	24,422
Renewable Fuels Except Fuel Ethanol	--	31,803	--	5,826	-20,756	-1,026	15,852	2,047	0	4,505
Other Hydrocarbons	--	--	--	78	188	-22	288	--	0	25
Unfinished Oils	--	--	--	170,866	--	5,695	90,316	74,896	-41	91,955
Motor Gasoline Blend.Comp. (MGBC) <sup>5</sup>	--	-36	--	193,120	-26,700	2,749	147,303	16,332	0	214,857
Reformulated	--	--	--	51,555	35,389	-2,052	88,856	140	0	51,403
Conventional	--	-36	--	141,565	-62,089	4,801	58,447	16,192	0	163,454
Aviation Gasoline Blend. Comp.	--	--	--	--	--	15	244	--	-259	30
<b>Finished Petroleum Products</b>	--	<b>1,405</b>	<b>5,455,911</b>	<b>192,944</b>	<b>51,598</b>	<b>1,740</b>	--	<b>923,690</b>	<b>4,776,428</b>	<b>293,377</b>
Finished Motor Gasoline	--	1,405	2,734,300	13,308	30,934	160	--	228,948	2,550,839	24,801
Reformulated	--	--	888,746	--	-30,816	12	--	--	857,918	52
Conventional	--	1,405	1,845,554	13,308	61,750	148	--	228,948	1,692,921	24,749
Finished Aviation Gasoline	--	--	3,244	58	--	-27	--	--	3,329	1,014
Kerosene-Type Jet Fuel	--	--	496,793	36,339	--	5,673	--	59,230	468,229	46,891
Kerosene	--	--	2,427	616	--	376	--	1,035	1,632	2,514
Distillate Fuel Oil <sup>5</sup>	--	--	1,396,836	46,052	20,664	-8,514	--	347,724	1,124,342	137,060
15 ppm sulfur and under	--	--	1,312,271	39,240	20,664	-4,570	--	295,059	1,081,686	123,321
Greater than 15 ppm to 500 ppm sulfur	--	--	25,042	946	--	-3,112	--	25,172	3,928	4,457
Greater than 500 ppm sulfur	--	--	59,523	5,866	--	-832	--	27,493	38,728	9,282
Residual Fuel Oil <sup>6</sup>	--	--	115,463	60,098	--	-756	--	90,540	85,777	28,603
Less than 0.31 percent sulfur	--	--	16,488	7,289	--	-238	--	NA	NA	1,910
0.31 to 1.00 percent sulfur	--	--	17,949	4,010	--	-1,556	--	NA	NA	5,045
Greater than 1.00 percent sulfur	--	--	81,026	48,799	--	1,036	--	NA	NA	21,640
Petrochemical Feedstocks	--	--	86,222	5,361	--	563	--	--	91,020	3,464
Naphtha for Petro. Feed. Use	--	--	56,004	4,526	--	529	--	--	60,001	2,378
Other Oils for Petro. Feed. Use	--	--	30,218	835	--	34	--	--	31,019	1,086
Special Naphthas	--	--	9,843	3,966	--	-78	--	--	13,887	1,114
Lubricants	--	--	51,154	11,806	--	1,491	--	30,855	30,614	13,512
Waxes	--	--	1,258	1,366	--	-174	--	1,158	1,640	683
Petroleum Coke	--	--	246,600	3,098	--	-289	--	158,044	91,943	8,230
Marketable	--	--	183,142	3,098	--	-289	--	158,044	28,485	8,230
Catalyst	--	--	63,458	--	--	--	--	--	63,458	--
Asphalt and Road Oil	--	--	93,031	10,800	--	3,330	--	5,864	94,637	24,836
Still Gas	--	--	192,933	--	--	--	--	--	192,933	--
Miscellaneous Products	--	--	25,807	76	--	-15	--	293	25,605	655
<b>Total</b>	<b>4,084,331</b>	<b>336,174</b>	<b>5,649,658</b>	<b>2,775,755</b>	<b>106,178</b>	<b>36,648</b>	<b>5,340,234</b>	<b>2,005,191</b>	<b>5,570,023</b>	<b>1,931,600</b>

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

<sup>1</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>4</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>5</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

**Table 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, September 2018**  
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments <sup>1</sup>	Stock Change <sup>2</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>3</sup>
<b>Crude Oil<sup>4</sup></b> .....	<b>11,475</b>	--	--	<b>7,589</b>	<b>347</b>	<b>310</b>	<b>16,986</b>	<b>2,116</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>4,631</b>	<b>-21</b>	<b>650</b>	<b>172</b>	--	<b>387</b>	<b>565</b>	<b>1,640</b>	<b>2,841</b>
Natural Gas Liquids .....	4,631	-21	351	151	--	384	565	1,640	2,524
Ethane .....	1,814	--	5	--	--	54	--	283	1,482
Propane .....	1,470	--	296	110	--	287	--	878	711
Normal Butane .....	404	--	60	31	--	22	186	293	-6
Isobutane .....	390	--	-10	10	--	12	213	4	161
Natural Gasoline .....	554	-21	--	0	--	9	166	182	176
Refinery Olefins .....	--	--	299	21	--	3	--	--	317
Ethylene .....	--	--	0	--	--	0	--	--	0
Propylene .....	--	--	294	14	--	7	--	--	301
Butylene .....	--	--	5	7	--	-5	--	--	18
Isobutylene .....	--	--	-1	--	--	1	--	--	-1
<b>Other Liquids</b> .....	--	<b>1,227</b>	--	<b>1,322</b>	<b>128</b>	<b>198</b>	<b>2,045</b>	<b>622</b>	<b>-188</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	--	1,227	--	25	141	52	1,195	147	0
Hydrogen .....	--	--	--	--	224	--	224	--	0
Oxygenates (excluding Fuel Ethanol) .....	--	77	--	4	-10	2	--	69	0
Renewable Fuels (including Fuel Ethanol) ...	--	1,151	--	21	-75	50	970	78	0
Fuel Ethanol <sup>5</sup> .....	--	1,022	--	1	14	53	913	71	0
Renewable Fuels Except Fuel Ethanol .....	--	128	--	20	-89	-3	56	6	0
Other Hydrocarbons .....	--	--	--	0	1	0	1	--	0
Unfinished Oils .....	--	--	--	698	--	77	439	368	-186
Motor Gasoline Blend.Comp. (MGBC) <sup>5</sup> .....	--	0	--	599	-13	69	410	107	0
Reformulated .....	--	--	--	145	231	131	244	0	0
Conventional .....	--	0	--	454	-244	-62	165	107	0
Aviation Gasoline Blend. Comp. ....	--	--	--	--	--	-1	2	--	-1
<b>Finished Petroleum Products</b> .....	--	<b>5</b>	<b>20,085</b>	<b>802</b>	<b>82</b>	<b>442</b>	--	<b>3,234</b>	<b>17,298</b>
Finished Motor Gasoline .....	--	5	9,926	94	-1	50	--	857	9,118
Reformulated .....	--	--	3,228	--	-256	0	--	--	2,972
Conventional .....	--	5	6,698	94	255	50	--	857	6,146
Finished Aviation Gasoline .....	--	--	14	0	--	4	--	--	9
Kerosene-Type Jet Fuel .....	--	--	1,856	181	--	170	--	167	1,700
Kerosene .....	--	--	23	--	--	22	--	--	0
Distillate Fuel Oil <sup>5</sup> .....	--	--	5,230	172	83	167	--	1,310	4,007
15 ppm sulfur and under .....	--	--	4,924	157	83	140	--	1,161	3,862
Greater than 15 ppm to 500 ppm sulfur .....	--	--	112	1	--	3	--	78	33
Greater than 500 ppm sulfur .....	--	--	194	14	--	24	--	71	112
Residual Fuel Oil <sup>6</sup> .....	--	--	429	227	--	26	--	267	362
Less than 0.31 percent sulfur .....	--	--	73	22	--	1	--	NA	NA
0.31 to 1.00 percent sulfur .....	--	--	65	15	--	25	--	NA	NA
Greater than 1.00 percent sulfur .....	--	--	292	189	--	0	--	NA	NA
Petrochemical Feedstocks .....	--	--	346	17	--	4	--	--	359
Naphtha for Petro. Feed. Use .....	--	--	241	13	--	4	--	--	251
Other Oils for Petro. Feed. Use .....	--	--	105	4	--	0	--	--	108
Special Naphthas .....	--	--	34	12	--	1	--	--	45
Lubricants .....	--	--	175	45	--	48	--	98	73
Waxes .....	--	--	4	8	--	1	--	5	7
Petroleum Coke .....	--	--	884	2	--	-37	--	503	420
Marketable .....	--	--	646	2	--	-37	--	503	182
Catalyst .....	--	--	238	--	--	--	--	--	238
Asphalt and Road Oil .....	--	--	353	45	--	-16	--	26	388
Still Gas .....	--	--	716	--	--	--	--	--	716
Miscellaneous Products .....	--	--	96	0	--	1	--	1	94
<b>Total</b> .....	<b>16,106</b>	<b>1,211</b>	<b>20,736</b>	<b>9,885</b>	<b>557</b>	<b>1,336</b>	<b>19,596</b>	<b>7,611</b>	<b>19,951</b>

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

<sup>1</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>4</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>5</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.



**Table 4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-September 2018**  
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments <sup>1</sup>	Stock Change <sup>2</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>3</sup>
<b>Crude Oil<sup>4</sup></b> .....	<b>10,677</b>	--	--	<b>7,912</b>	<b>187</b>	<b>-29</b>	<b>16,961</b>	<b>1,843</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>4,284</b>	<b>-21</b>	<b>710</b>	<b>184</b>	--	<b>124</b>	<b>525</b>	<b>1,599</b>	<b>2,908</b>
Natural Gas Liquids .....	4,284	-21	418	159	--	124	525	1,599	2,592
Ethane .....	1,684	--	--	--	--	-32	--	256	1,466
Propane .....	1,367	--	305	130	--	47	--	951	804
Normal Butane .....	347	--	119	18	--	102	141	192	49
Isobutane .....	388	--	-256	11	--	6	219	5	156
Natural Gasoline .....	498	-21	--	0	--	1	166	193	117
Refinery Olefins .....	--	--	292	25	--	0	--	--	316
Ethylene .....	--	--	0	--	--	0	--	--	0
Propylene .....	--	--	288	19	--	-4	--	--	310
Butylene .....	--	--	4	6	--	4	--	--	6
Isobutylene .....	--	--	231	--	--	0	--	--	0
<b>Other Liquids</b> .....	--	<b>1,247</b>	--	<b>1,366</b>	<b>13</b>	<b>32</b>	<b>2,074</b>	<b>520</b>	<b>-1</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	--	1,247	--	32	111	1	1,203	186	0
Hydrogen .....	--	--	--	--	222	--	222	--	0
Oxygenates (excluding Fuel Ethanol) .....	--	80	--	9	-21	0	--	69	0
Renewable Fuels (including Fuel Ethanol) .....	--	1,167	--	23	-92	1	980	117	0
Fuel Ethanol <sup>5</sup> .....	--	1,050	--	1	-16	5	922	109	0
Renewable Fuels Except Fuel Ethanol .....	--	116	--	21	-76	-4	58	7	0
Other Hydrocarbons .....	--	--	--	0	1	0	1	--	0
Unfinished Oils .....	--	--	--	626	--	21	331	274	0
Motor Gasoline Blend.Comp. (MGBC) <sup>5</sup> .....	--	0	--	707	-98	10	540	60	0
Reformulated .....	--	--	--	189	130	-8	325	1	0
Conventional .....	--	0	--	519	-227	18	214	59	0
Aviation Gasoline Blend. Comp. ....	--	--	--	--	--	0	1	--	-1
<b>Finished Petroleum Products</b> .....	--	<b>5</b>	<b>19,985</b>	<b>707</b>	<b>189</b>	<b>6</b>	--	<b>3,383</b>	<b>17,496</b>
Finished Motor Gasoline .....	--	5	10,016	49	113	1	--	839	9,344
Reformulated .....	--	--	3,255	--	-113	0	--	--	3,143
Conventional .....	--	5	6,760	49	226	1	--	839	6,201
Finished Aviation Gasoline .....	--	--	12	0	--	0	--	--	12
Kerosene-Type Jet Fuel .....	--	--	1,820	133	--	21	--	217	1,715
Kerosene .....	--	--	9	2	--	1	--	4	6
Distillate Fuel Oil <sup>5</sup> .....	--	--	5,117	169	76	-31	--	1,274	4,118
15 ppm sulfur and under .....	--	--	4,807	144	76	-17	--	1,081	3,962
Greater than 15 ppm to 500 ppm sulfur .....	--	--	92	3	--	-11	--	92	14
Greater than 500 ppm sulfur .....	--	--	218	21	--	-3	--	101	142
Residual Fuel Oil <sup>6</sup> .....	--	--	423	220	--	-3	--	332	314
Less than 0.31 percent sulfur .....	--	--	60	27	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur .....	--	--	66	15	--	-6	--	NA	NA
Greater than 1.00 percent sulfur .....	--	--	297	179	--	4	--	NA	NA
Petrochemical Feedstocks .....	--	--	316	20	--	2	--	--	333
Naphtha for Petro. Feed. Use .....	--	--	205	17	--	2	--	--	220
Other Oils for Petro. Feed. Use .....	--	--	111	3	--	0	--	--	114
Special Naphthas .....	--	--	36	15	--	0	--	--	51
Lubricants .....	--	--	187	43	--	5	--	113	112
Waxes .....	--	--	5	5	--	-1	--	4	6
Petroleum Coke .....	--	--	903	11	--	-1	--	579	337
Marketable .....	--	--	671	11	--	-1	--	579	104
Catalyst .....	--	--	232	--	--	--	--	--	232
Asphalt and Road Oil .....	--	--	341	40	--	12	--	21	347
Still Gas .....	--	--	707	--	--	--	--	--	707
Miscellaneous Products .....	--	--	95	0	--	0	--	1	94
<b>Total</b> .....	<b>14,961</b>	<b>1,231</b>	<b>20,695</b>	<b>10,168</b>	<b>389</b>	<b>134</b>	<b>19,561</b>	<b>7,345</b>	<b>20,403</b>

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

<sup>1</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>4</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>5</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

**Table 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, September 2018**  
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	Ending Stocks
<b>Crude Oil</b>	<b>1,982</b>	--	--	<b>23,425</b>	<b>6,092</b>	<b>373</b>	<b>900</b>	<b>30,088</b>	<b>884</b>	<b>0</b>	<b>12,259</b>
<b>Hydrocarbon Gas Liquids</b>	<b>16,096</b>	<b>-12</b>	<b>710</b>	<b>738</b>	<b>-2,994</b>	--	<b>1,056</b>	<b>2,081</b>	<b>3,492</b>	<b>7,909</b>	<b>11,153</b>
Natural Gas Liquids	16,096	-12	470	630	-3,280	--	913	2,081	3,492	7,418	10,881
Ethane	6,900	--	--	--	--	--	144	--	1,405	-348	767
Propane	5,245	--	574	494	2,492	--	1,168	--	1,640	5,997	7,523
Normal Butane	1,618	--	-94	26	266	--	-412	1,496	363	369	2,209
Isobutane	797	--	-10	110	-101	--	-14	431	1	378	145
Natural Gasoline	1,536	-12	--	--	-238	--	27	154	84	1,021	237
Refinery Olefins	--	--	240	108	--	--	143	--	--	491	272
Ethylene	--	--	3	--	--	--	--	--	--	3	--
Propylene	--	--	273	108	--	--	20	--	--	647	106
Butylene	--	--	-56	--	--	--	98	--	--	-154	107
Isobutylene	--	--	20	--	--	--	25	--	--	-5	59
<b>Other Liquids</b>	--	<b>906</b>	--	<b>18,085</b>	<b>59,805</b>	<b>4,470</b>	<b>3,245</b>	<b>79,362</b>	<b>469</b>	<b>189</b>	<b>80,263</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	909	--	159	10,270	-971	-49	10,303	113	0	8,841
Hydrogen	--	--	--	--	--	100	--	100	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	909	--	159	10,270	-1,071	-49	10,203	112	0	8,841
Fuel Ethanol	--	682	--	--	10,066	-717	-26	9,949	108	0	7,646
Renewable Fuels Except Fuel Ethanol	--	227	--	159	204	-355	-23	254	4	0	1,195
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1,825	-41	--	372	1,194	29	189	6,916
Motor Gasoline Blend.Comp. (MGBC)	--	-3	--	16,101	49,576	5,441	2,922	67,865	328	0	64,506
Reformulated	--	--	--	4,339	7,311	3,121	4,192	10,578	1	0	22,302
Conventional	--	-3	--	11,762	42,265	2,320	-1,270	57,287	327	0	42,204
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>112,095</b>	<b>12,008</b>	<b>46,830</b>	<b>-4,371</b>	<b>6,241</b>	--	<b>3,736</b>	<b>156,585</b>	<b>77,943</b>
Finished Motor Gasoline	--	--	94,337	2,750	7,688	-4,724	631	--	234	99,186	5,698
Reformulated	--	--	38,403	--	--	-3,101	7	--	--	35,295	32
Conventional	--	--	55,934	2,750	7,688	-1,623	624	--	234	63,892	5,666
Finished Aviation Gasoline	--	--	--	1	22	--	-6	--	--	29	148
Kerosene-Type Jet Fuel	--	--	2,545	2,149	14,428	--	2,376	--	562	16,184	11,699
Kerosene	--	--	215	--	304	--	618	--	--	-99	2,124
Distillate Fuel Oil <sup>6</sup>	--	--	9,162	3,716	22,306	353	2,760	--	1,328	31,449	43,582
15 ppm sulfur and under	--	--	8,571	3,666	21,382	353	2,630	--	1,153	30,189	38,549
Greater than 15 ppm to 500 ppm sulfur	--	--	163	40	--	--	-115	--	175	143	2,131
Greater than 500 ppm sulfur	--	--	428	10	924	--	245	--	0	1,117	2,902
Residual Fuel Oil <sup>7</sup>	--	--	1,957	2,099	-75	--	212	--	745	3,024	6,769
Less than 0.31 percent sulfur	--	--	678	--	--	--	86	--	NA	NA	894
0.31 to 1.00 percent sulfur	--	--	556	--	--	--	456	--	NA	NA	1,237
Greater than 1.00 percent sulfur	--	--	723	2,099	-75	--	-330	--	NA	NA	4,638
Petrochemical Feedstocks	--	--	71	--	--	--	15	--	--	56	102
Naphtha for Petro. Feed. Use	--	--	71	--	--	--	15	--	--	56	102
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	22	2	--	--	2	--	--	22	42
Lubricants	--	--	306	132	428	--	-73	--	154	785	1,151
Waxes	--	--	18	127	--	--	22	--	70	53	373
Petroleum Coke	--	--	952	2	312	--	--	--	596	671	--
Marketable	--	--	357	2	312	--	--	--	596	76	--
Catalyst	--	--	595	--	--	--	--	--	--	595	--
Asphalt and Road Oil	--	--	1,145	1,030	1,417	--	-321	--	36	3,877	6,225
Still Gas	--	--	1,261	--	--	--	--	--	--	1,261	--
Miscellaneous Products	--	--	104	--	--	--	5	--	12	87	30
<b>Total</b>	<b>18,078</b>	<b>894</b>	<b>112,805</b>	<b>54,256</b>	<b>109,732</b>	<b>472</b>	<b>11,442</b>	<b>111,531</b>	<b>8,581</b>	<b>164,683</b>	<b>181,618</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix

D.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report", EIA-812, "Monthly Product Pipeline Report", EIA-813, "Monthly Crude Oil Report", EIA-814, "Monthly Imports Report", EIA-815, "Monthly Bulk Terminal and Blender Report", EIA-816, "Monthly Natural Gas Liquids Report", EIA-817, "Monthly Tanker and Barge Movements Report", and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-September 2018**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b>	15,055	--	--	223,802	48,502	13,279	780	290,869	8,988	0	12,259
<b>Hydrocarbon Gas Liquids</b>	133,376	-122	10,681	12,579	-18,794	--	2,676	10,197	25,344	99,503	11,153
Natural Gas Liquids	133,376	-122	7,889	10,716	-21,368	--	2,736	10,197	25,344	92,214	--
Ethane	58,107	--	--	--	--	--	313	--	7,646	3,072	--
Propane	43,381	--	5,874	9,587	26,900	--	1,678	--	14,345	69,719	--
Normal Butane	13,054	--	2,271	244	1,582	--	859	5,414	2,691	8,187	--
Isobutane	6,499	--	-256	885	-999	--	-31	3,852	9	2,299	--
Natural Gasoline	12,335	-122	--	--	-1,775	--	-83	931	654	8,936	--
Refinery Olefins	--	--	2,792	1,863	--	--	-60	--	--	7,289	--
Ethylene	--	--	26	--	--	--	--	--	--	26	--
Propylene	--	--	2,885	1,863	--	--	-48	--	--	7,370	--
Butylene	--	--	-350	--	--	--	-41	--	--	-309	--
Isobutylene	--	--	231	--	--	--	29	--	--	202	--
<b>Other Liquids</b>	--	8,774	--	178,317	517,344	52,387	11,134	744,268	2,797	-1,377	80,263
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	8,801	--	1,422	86,509	-490	30	95,285	926	0	8,841
Hydrogen	--	--	--	--	--	928	--	928	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	13	--	--	13	0	--
Renewable Fuels (including Fuel Ethanol)	--	8,801	--	1,422	86,509	-1,431	30	94,357	914	0	8,841
Fuel Ethanol	--	6,835	--	--	84,930	1,407	632	91,706	834	0	7,646
Renewable Fuels Except Fuel Ethanol	--	1,966	--	1,422	1,579	-2,838	-602	2,651	80	0	1,195
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	11,389	15	--	1,703	10,749	329	-1,377	6,916
Motor Gasoline Blend.Comp. (MGBC)	--	-27	--	165,506	430,820	52,878	9,401	638,234	1,542	0	64,506
Reformulated	--	--	--	50,540	70,086	23,606	2,439	141,776	17	0	22,302
Conventional	--	-27	--	114,966	360,734	29,272	6,962	496,458	1,525	0	42,204
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	1,046,784	99,406	421,257	-51,436	-5,136	--	39,507	1,481,640	77,943
Finished Motor Gasoline	--	--	881,521	10,863	57,152	-54,285	193	--	1,337	893,721	5,698
Reformulated	--	--	354,783	--	--	-19,373	8	--	--	335,402	32
Conventional	--	--	526,738	10,863	57,152	-34,912	185	--	1,337	558,319	5,666
Finished Aviation Gasoline	--	--	--	27	829	--	-27	--	--	883	148
Kerosene-Type Jet Fuel	--	--	25,980	13,980	134,626	--	2,190	--	3,412	168,984	11,699
Kerosene	--	--	1,226	614	833	--	326	--	39	2,308	2,124
Distillate Fuel Oil <sup>6</sup>	--	--	88,424	38,735	209,740	2,848	-9,095	--	10,943	337,899	43,582
15 ppm sulfur and under	--	--	81,071	33,600	193,500	2,848	-5,309	--	6,835	309,493	38,549
Greater than 15 ppm to 500 ppm sulfur	--	--	763	946	659	--	-2,461	--	1,987	2,842	2,131
Greater than 500 ppm sulfur	--	--	6,590	4,189	15,581	--	-1,325	--	2,121	25,564	2,902
Residual Fuel Oil <sup>7</sup>	--	--	13,347	25,671	-1,645	--	-535	--	12,313	25,595	6,769
Less than 0.31 percent sulfur	--	--	3,561	692	-91	--	-296	--	NA	NA	894
0.31 to 1.00 percent sulfur	--	--	4,240	884	-1,078	--	-189	--	NA	NA	1,237
Greater than 1.00 percent sulfur	--	--	5,546	24,095	-476	--	-50	--	NA	NA	4,638
Petrochemical Feedstocks	--	--	831	10	63	--	4	--	--	900	102
Naphtha for Petro. Feed. Use	--	--	831	9	72	--	4	--	--	908	102
Other Oils for Petro. Feed. Use	--	--	--	1	-9	--	--	--	--	-8	--
Special Naphthas	--	--	188	6	--	--	-5	--	--	199	42
Lubricants	--	--	3,617	1,456	3,884	--	89	--	2,380	6,488	1,151
Waxes	--	--	120	693	--	--	-154	--	605	362	373
Petroleum Coke	--	--	9,256	186	4,374	--	--	--	7,692	6,125	--
Marketable	--	--	3,609	186	4,374	--	--	--	7,692	478	--
Catalyst	--	--	5,647	--	--	--	--	--	--	5,647	--
Asphalt and Road Oil	--	--	9,381	7,165	11,401	--	1,877	--	663	25,407	6,225
Still Gas	--	--	12,021	--	--	--	--	--	--	12,021	--
Miscellaneous Products	--	--	872	--	--	--	1	--	124	747	30
<b>Total</b>	<b>148,431</b>	<b>8,652</b>	<b>1,057,465</b>	<b>514,104</b>	<b>968,309</b>	<b>14,229</b>	<b>9,454</b>	<b>1,045,334</b>	<b>76,637</b>	<b>1,579,765</b>	<b>181,618</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, September 2018**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	<b>66</b>	<b>--</b>	<b>--</b>	<b>781</b>	<b>203</b>	<b>12</b>	<b>30</b>	<b>1,003</b>	<b>29</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>537</b>	<b>0</b>	<b>24</b>	<b>25</b>	<b>-100</b>	<b>--</b>	<b>35</b>	<b>69</b>	<b>116</b>	<b>264</b>
Natural Gas Liquids	537	0	16	21	-109	--	30	69	116	247
Ethane	230	--	--	--	--	--	5	--	47	-12
Propane	175	--	19	16	83	--	39	--	--	200
Normal Butane	54	--	-3	1	9	--	-14	50	12	12
Isobutane	27	--	0	4	-3	--	0	14	0	13
Natural Gasoline	51	0	--	--	-8	--	1	5	3	34
Refinery Olefins	--	--	8	4	--	--	5	--	--	16
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	9	4	10	--	1	--	--	22
Butylene	--	--	-2	--	--	--	3	--	--	-5
Isobutylene	--	--	1	--	--	--	1	--	--	0
<b>Other Liquids</b>	<b>--</b>	<b>30</b>	<b>--</b>	<b>603</b>	<b>1,993</b>	<b>149</b>	<b>108</b>	<b>2,645</b>	<b>16</b>	<b>6</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	30	--	5	342	-32	-2	343	4	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	30	--	5	342	-36	-2	340	4	0
Fuel Ethanol <sup>6</sup>	--	23	--	--	336	-24	-1	332	4	0
Renewable Fuels Except Fuel Ethanol	--	8	--	5	7	-12	-1	8	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	61	-1	--	12	40	1	6
Motor Gasoline Blend.Comp. (MGBC) <sup>6</sup>	--	0	--	537	1,653	181	97	2,262	11	0
Reformulated	--	--	--	145	244	104	140	353	0	0
Conventional	--	0	--	392	1,409	77	-42	1,910	11	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	<b>--</b>	<b>--</b>	<b>3,737</b>	<b>400</b>	<b>1,561</b>	<b>-146</b>	<b>208</b>	<b>--</b>	<b>125</b>	<b>5,219</b>
Finished Motor Gasoline	--	--	3,145	92	256	-157	21	--	8	3,306
Reformulated	--	--	1,280	--	--	-103	0	--	--	1,176
Conventional	--	--	1,864	92	256	-54	21	--	8	2,130
Finished Aviation Gasoline	--	--	--	0	1	--	0	--	--	1
Kerosene-Type Jet Fuel	--	--	85	72	481	--	79	--	19	539
Kerosene	--	--	7	--	10	--	21	--	--	-3
Distillate Fuel Oil <sup>6</sup>	--	--	305	124	744	12	92	--	44	1,048
15 ppm sulfur and under	--	--	286	122	713	12	88	--	38	1,006
Greater than 15 ppm to 500 ppm sulfur	--	--	5	1	--	--	-4	--	6	5
Greater than 500 ppm sulfur	--	--	14	0	31	--	8	--	0	37
Residual Fuel Oil <sup>7</sup>	--	--	65	70	-3	--	7	--	25	101
Less than 0.31 percent sulfur	--	--	23	--	--	--	3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	19	--	--	--	15	--	NA	NA
Greater than 1.00 percent sulfur	--	--	24	70	-3	--	-11	--	NA	NA
Petrochemical Feedstocks	--	--	2	--	--	--	1	--	--	2
Naphtha for Petro. Feed. Use	--	--	2	--	--	--	1	--	--	2
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	0	--	--	0	--	--	1
Lubricants	--	--	10	4	14	--	-2	--	5	26
Waxes	--	--	1	4	--	--	1	--	2	2
Petroleum Coke	--	--	32	0	10	--	--	--	20	22
Marketable	--	--	12	0	10	--	--	--	20	3
Catalyst	--	--	20	--	--	--	--	--	--	20
Asphalt and Road Oil	--	--	38	34	47	--	-11	--	1	129
Still Gas	--	--	42	--	--	--	--	--	--	42
Miscellaneous Products	--	--	3	--	--	--	0	--	0	3
<b>Total</b>	<b>603</b>	<b>30</b>	<b>3,760</b>	<b>1,809</b>	<b>3,658</b>	<b>16</b>	<b>381</b>	<b>3,718</b>	<b>286</b>	<b>5,489</b>

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-September 2018**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	55	--	--	820	178	49	3	1,065	33	0
<b>Hydrocarbon Gas Liquids</b>	489	0	39	46	-69	--	10	37	93	364
Natural Gas Liquids	489	0	29	39	-78	--	10	37	93	338
Ethane	213	--	--	--	--	--	1	--	28	11
Propane	159	--	22	35	99	--	6	--	--	255
Normal Butane	48	--	8	1	6	--	3	20	10	30
Isobutane	24	--	-1	3	-4	--	0	14	0	8
Natural Gasoline	45	0	--	--	-7	--	0	3	2	33
Refinery Olefins	--	--	10	7	--	--	0	--	--	27
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	11	7	9	--	0	--	--	27
Butylene	--	--	-1	--	--	--	0	--	--	-1
Isobutylene	--	--	1	--	--	--	0	--	--	1
<b>Other Liquids</b>	--	32	--	653	1,895	192	41	2,726	10	-5
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	32	--	5	317	-2	0	349	3	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	32	--	5	317	-5	0	346	3	0
Fuel Ethanol <sup>6</sup>	--	25	--	--	311	5	2	336	3	0
Renewable Fuels Except Fuel Ethanol	--	7	--	5	6	-10	-2	10	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	42	0	--	6	39	1	-5
Motor Gasoline Blend.Comp. (MGBC) <sup>6</sup>	--	0	--	606	1,578	194	34	2,338	6	0
Reformulated	--	--	--	185	257	86	9	519	0	0
Conventional	--	0	--	421	1,321	107	26	1,819	6	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	3,834	364	1,543	-188	-19	--	145	5,427
Finished Motor Gasoline	--	--	3,229	40	209	-199	1	--	5	3,274
Reformulated	--	--	1,300	--	--	-71	0	--	--	1,229
Conventional	--	--	1,929	40	209	-128	1	--	5	2,045
Finished Aviation Gasoline	--	--	--	0	3	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	95	51	493	--	8	--	12	619
Kerosene	--	--	4	2	3	--	1	--	0	8
Distillate Fuel Oil <sup>6</sup>	--	--	324	142	768	10	-33	--	40	1,238
15 ppm sulfur and under	--	--	297	123	709	10	-19	--	25	1,134
Greater than 15 ppm to 500 ppm sulfur	--	--	3	3	2	--	-9	--	7	10
Greater than 500 ppm sulfur	--	--	24	15	57	--	-5	--	8	94
Residual Fuel Oil <sup>7</sup>	--	--	49	94	-6	--	-2	--	45	94
Less than 0.31 percent sulfur	--	--	13	3	0	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	16	3	-4	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	20	88	-2	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	3	0	0	--	0	--	--	3
Naphtha for Petro. Feed. Use	--	--	3	0	0	--	0	--	--	3
Other Oils for Petro. Feed. Use	--	--	--	0	0	--	--	--	--	0
Special Naphthas	--	--	1	0	--	--	0	--	--	1
Lubricants	--	--	13	5	14	--	0	--	9	24
Waxes	--	--	0	3	--	--	-1	--	2	1
Petroleum Coke	--	--	34	1	16	--	--	--	28	22
Marketable	--	--	13	1	16	--	--	--	28	2
Catalyst	--	--	21	--	--	--	--	--	--	21
Asphalt and Road Oil	--	--	34	26	42	--	7	--	2	93
Still Gas	--	--	44	--	--	--	--	--	--	44
Miscellaneous Products	--	--	3	--	--	--	0	--	0	3
<b>Total</b>	<b>544</b>	<b>32</b>	<b>3,873</b>	<b>1,883</b>	<b>3,547</b>	<b>52</b>	<b>35</b>	<b>3,829</b>	<b>281</b>	<b>5,787</b>

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.



**Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, September 2018**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b>	<b>64,343</b>	--	--	<b>80,410</b>	<b>-20,345</b>	<b>-10,321</b>	<b>1,769</b>	<b>109,413</b>	<b>2,905</b>	<b>0</b>	<b>112,357</b>
<b>Hydrocarbon Gas Liquids</b>	<b>31,413</b>	<b>-572</b>	<b>2,963</b>	<b>2,528</b>	<b>-7,157</b>	--	<b>3,093</b>	<b>3,305</b>	<b>8,677</b>	<b>14,100</b>	<b>66,417</b>
Natural Gas Liquids	31,413	-572	1,687	2,165	-6,245	--	3,093	3,305	8,677	13,373	65,973
Ethane	11,385	--	--	--	--	--	494	--	3,103	4,898	6,228
Propane	10,784	--	1,969	1,594	-5,413	--	2,786	--	38	6,110	27,151
Normal Butane	3,737	--	-171	456	-2,197	--	-108	585	249	1,099	21,025
Isobutane	1,792	--	-111	108	94	--	-155	1,459	1	578	2,135
Natural Gasoline	3,715	-572	--	7	4,161	--	76	1,261	5,286	688	9,434
Refinery Olefins	--	--	1,276	363	--	--	0	--	--	727	444
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,219	299	--	--	7	--	--	599	353
Butylene	--	--	68	64	--	--	-11	--	--	143	39
Isobutylene	--	--	-11	--	--	--	4	--	--	-15	52
<b>Other Liquids</b>	--	<b>30,782</b>	--	<b>620</b>	<b>-11,355</b>	<b>186</b>	<b>1,725</b>	<b>18,419</b>	<b>3,161</b>	<b>-3,072</b>	<b>70,273</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	30,783	--	111	-20,991	702	845	8,962	798	0	9,170
Hydrogen	--	--	--	--	--	945	--	945	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	0	--	1	0	5
Renewable Fuels (including Fuel Ethanol)	--	30,783	--	111	-20,991	-273	838	7,995	797	0	9,140
Fuel Ethanol	--	28,180	--	--	-20,213	917	763	7,390	730	0	8,351
Renewable Fuels Except Fuel Ethanol	--	2,603	--	111	-778	-1,190	75	605	66	0	789
Other Hydrocarbons	--	--	--	--	--	29	7	22	--	0	25
Unfinished Oils	--	--	--	53	-628	--	1,268	-1,120	2,349	-3,072	14,699
Motor Gasoline Blend.Comp. (MGBC)	--	-1	--	456	10,264	-517	-388	10,577	13	0	46,404
Reformulated	--	--	--	--	2,589	-989	-147	1,747	--	0	6,010
Conventional	--	-1	--	456	7,675	472	-241	8,830	13	0	40,394
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	<b>156</b>	<b>134,687</b>	<b>985</b>	<b>6,140</b>	<b>802</b>	<b>752</b>	--	<b>1,120</b>	<b>140,898</b>	<b>64,871</b>
Finished Motor Gasoline	--	156	77,047	--	885	-400	516	--	171	77,000	6,688
Reformulated	--	--	10,764	--	--	1,162	--	--	--	11,926	--
Conventional	--	156	66,283	--	885	-1,562	516	--	171	65,074	6,688
Finished Aviation Gasoline	--	--	19	3	--	--	8	--	--	14	172
Kerosene-Type Jet Fuel	--	--	7,736	--	1,350	--	427	--	36	8,623	7,882
Kerosene	--	--	168	--	--	--	-69	--	--	237	162
Distillate Fuel Oil	--	--	32,133	423	5,869	1,202	280	--	182	39,164	34,984
15 ppm sulfur and under	--	--	32,304	364	5,697	1,202	285	--	120	39,162	34,119
Greater than 15 ppm to 500 ppm sulfur	--	--	0	--	172	--	-3	--	27	148	288
Greater than 500 ppm sulfur	--	--	-171	59	--	--	-2	--	36	-146	577
Residual Fuel Oil <sup>6</sup>	--	--	1,492	76	-853	--	-9	--	175	549	1,228
Less than 0.31 percent sulfur	--	--	42	--	-63	--	17	--	NA	NA	96
0.31 to 1.00 percent sulfur	--	--	181	17	--	--	10	--	NA	NA	162
Greater than 1.00 percent sulfur	--	--	1,269	59	-790	--	-36	--	NA	NA	970
Petrochemical Feedstocks	--	--	1,005	160	-69	--	5	--	--	1,091	577
Naphtha for Petro. Feed. Use	--	--	686	75	-45	--	-7	--	--	723	421
Other Oils for Petro. Feed. Use	--	--	319	85	-24	--	12	--	--	368	156
Special Naphthas	--	--	55	19	25	--	8	--	--	91	170
Lubricants	--	--	273	119	102	--	46	--	190	258	824
Waxes	--	--	29	3	--	--	7	--	40	-15	57
Petroleum Coke	--	--	4,994	26	-374	--	-235	--	197	4,685	1,546
Marketable	--	--	3,583	26	-374	--	-235	--	197	3,274	1,546
Catalyst	--	--	1,411	--	--	--	--	--	--	1,411	--
Asphalt and Road Oil	--	--	5,078	156	-799	--	-239	--	126	4,549	10,502
Still Gas	--	--	4,264	--	--	--	--	--	--	4,264	--
Miscellaneous Products	--	--	394	--	3	--	7	--	3	387	79
<b>Total</b>	<b>95,756</b>	<b>30,366</b>	<b>137,650</b>	<b>84,543</b>	<b>-32,718</b>	<b>-9,334</b>	<b>7,339</b>	<b>131,137</b>	<b>15,862</b>	<b>151,926</b>	<b>313,918</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-September 2018**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b>	<b>539,287</b>	--	--	<b>759,796</b>	<b>-157,390</b>	<b>-81,175</b>	<b>-19,386</b>	<b>1,048,367</b>	<b>31,538</b>	<b>0</b>	<b>112,357</b>
<b>Hydrocarbon Gas Liquids</b>	<b>263,665</b>	<b>-5,262</b>	<b>36,760</b>	<b>22,711</b>	<b>-87,742</b>	--	<b>16,288</b>	<b>26,658</b>	<b>80,023</b>	<b>107,163</b>	<b>66,417</b>
Natural Gas Liquids	263,665	-5,262	24,532	19,031	-80,897	--	16,597	26,658	80,023	97,791	--
Ethane	94,594	--	--	--	--	--	1,195	--	24,310	29,653	--
Propane	92,560	--	20,448	15,616	-65,341	--	7,132	--	1,297	54,854	--
Normal Butane	30,641	--	19	1,922	-19,764	--	9,210	4,722	3,162	982	--
Isobutane	16,099	--	-1,186	1,452	1,262	--	-25	13,948	4	3,700	--
Natural Gasoline	29,771	-5,262	--	41	42,382	--	-915	7,988	51,258	8,601	--
Refinery Olefins	--	--	12,228	3,680	--	--	-309	--	--	9,372	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	11,706	3,198	--	--	-285	--	--	8,344	--
Butylene	--	--	552	482	--	--	-76	--	--	1,110	--
Isobutylene	--	--	-30	--	--	--	52	--	--	-82	--
<b>Other Liquids</b>	--	<b>284,453</b>	--	<b>4,527</b>	<b>-107,556</b>	<b>-19,109</b>	<b>752</b>	<b>155,026</b>	<b>25,570</b>	<b>-19,034</b>	<b>70,273</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	284,462	--	488	-186,916	-9,602	-1,209	83,069	6,571	0	9,170
Hydrogen	--	--	--	--	--	10,288	--	10,288	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	8	-2	--	10	0	5
Renewable Fuels (including Fuel Ethanol)	--	284,462	--	462	-186,916	-20,139	-1,185	72,493	6,561	0	9,140
Fuel Ethanol	--	263,267	--	--	-180,270	-10,285	-729	67,812	5,629	0	8,351
Renewable Fuels Except Fuel Ethanol	--	21,195	--	462	-6,645	-9,854	-456	4,681	932	0	789
Other Hydrocarbons	--	--	--	26	--	240	-22	288	--	0	25
Unfinished Oils	--	--	--	490	136	--	1,231	-186	18,615	-19,034	14,699
Motor Gasoline Blend.Comp. (MGBC)	--	-9	--	3,549	79,224	-9,507	730	72,143	384	0	46,404
Reformulated	--	--	--	64	22,162	-12,135	-153	10,243	1	0	6,010
Conventional	--	-9	--	3,485	57,062	2,628	883	61,900	383	0	40,394
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	<b>1,405</b>	<b>1,255,096</b>	<b>8,187</b>	<b>27,510</b>	<b>29,698</b>	<b>8,394</b>	--	<b>9,063</b>	<b>1,304,439</b>	<b>64,871</b>
Finished Motor Gasoline	--	1,405	708,962	--	4,518	19,792	152	--	1,814	732,711	6,688
Reformulated	--	--	99,352	--	--	14,451	--	--	--	113,803	--
Conventional	--	1,405	609,610	--	4,518	5,341	152	--	1,814	618,908	6,688
Finished Aviation Gasoline	--	--	418	23	146	--	14	--	--	573	172
Kerosene-Type Jet Fuel	--	--	71,497	--	10,183	--	982	--	419	80,279	7,882
Kerosene	--	--	801	2	28	--	42	--	21	768	162
Distillate Fuel Oil	--	--	310,533	1,711	33,496	9,906	6,189	--	1,192	348,265	34,984
15 ppm sulfur and under	--	--	310,519	1,142	32,597	9,906	5,987	--	277	347,900	34,119
Greater than 15 ppm to 500 ppm sulfur	--	--	754	--	899	--	-36	--	476	1,213	288
Greater than 500 ppm sulfur	--	--	-740	569	--	--	238	--	439	-848	577
Residual Fuel Oil <sup>6</sup>	--	--	12,928	890	-6,633	--	-5	--	1,237	5,953	1,228
Less than 0.31 percent sulfur	--	--	355	1	-371	--	-13	--	NA	NA	96
0.31 to 1.00 percent sulfur	--	--	1,919	293	-88	--	-22	--	NA	NA	162
Greater than 1.00 percent sulfur	--	--	10,654	596	-6,174	--	30	--	NA	NA	970
Petrochemical Feedstocks	--	--	8,386	1,268	-938	--	89	--	--	8,627	577
Naphtha for Petro. Feed. Use	--	--	5,632	635	-763	--	69	--	--	5,435	421
Other Oils for Petro. Feed. Use	--	--	2,754	633	-175	--	20	--	--	3,192	156
Special Naphthas	--	--	495	359	244	--	69	--	--	1,029	170
Lubricants	--	--	1,812	1,226	1,790	--	-59	--	1,805	3,082	824
Waxes	--	--	277	43	--	--	-6	--	287	39	57
Petroleum Coke	--	--	51,770	243	-8,290	--	29	--	1,340	42,354	1,546
Marketable	--	--	38,486	243	-8,290	--	29	--	1,340	29,070	1,546
Catalyst	--	--	13,284	--	--	--	--	--	--	13,284	--
Asphalt and Road Oil	--	--	43,019	2,414	-7,096	--	944	--	930	36,464	10,502
Still Gas	--	--	39,844	--	--	--	--	--	--	39,844	--
Miscellaneous Products	--	--	4,354	8	62	--	-46	--	19	4,451	79
<b>Total</b>	<b>802,952</b>	<b>280,596</b>	<b>1,291,856</b>	<b>795,221</b>	<b>-325,177</b>	<b>-70,587</b>	<b>6,048</b>	<b>1,230,051</b>	<b>146,194</b>	<b>1,392,568</b>	<b>313,918</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, September 2018**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b> .....	2,145	--	--	2,680	-678	-344	59	3,647	97	0
<b>Hydrocarbon Gas Liquids</b> .....	1,047	-19	99	84	-239	--	103	110	289	470
Natural Gas Liquids .....	1,047	-19	56	72	-208	--	103	110	289	446
Ethane .....	380	--	--	--	--	--	16	--	103	163
Propane .....	359	--	66	53	-180	--	93	--	1	204
Normal Butane .....	125	--	1,571	15	-73	--	-4	20	8	37
Isobutane .....	60	--	-4	4	3	--	-5	49	0	19
Natural Gasoline .....	124	-19	--	0	139	--	3	42	176	23
Refinery Olefins .....	--	--	43	12	--	--	0	--	--	24
Ethylene .....	--	--	--	--	--	--	--	--	--	--
Propylene .....	--	--	41	10	-30	--	0	--	--	20
Butylene .....	--	--	2	2	--	--	0	--	--	5
Isobutylene .....	--	--	0	--	--	--	0	--	--	-1
<b>Other Liquids</b> .....	--	1,026	--	21	-379	6	57	614	105	-102
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	--	1,026	--	4	-700	23	28	299	27	0
Hydrogen .....	--	--	--	--	--	32	--	32	--	0
Oxygenates (excluding Fuel Ethanol) .....	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol) .....	--	1,026	--	4	-700	-9	28	267	27	0
Fuel Ethanol .....	--	939	--	--	-674	31	25	246	24	0
Renewable Fuels Except Fuel Ethanol .....	--	87	--	4	-26	-40	2	20	2	0
Other Hydrocarbons .....	--	--	--	--	--	1	0	1	--	0
Unfinished Oils .....	--	--	--	2	-21	--	42	-37	78	-102
Motor Gasoline Blend.Comp. (MGBC) .....	--	0	--	15	342	-17	-13	353	0	0
Reformulated .....	--	--	--	--	86	-33	-5	58	--	0
Conventional .....	--	0	--	15	256	16	-8	294	0	0
Aviation Gasoline Blend. Comp. ....	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b> .....	--	5	4,490	33	205	27	25	--	37	4,697
Finished Motor Gasoline .....	--	5	2,568	--	30	-13	17	--	6	2,567
Reformulated .....	--	--	359	--	--	39	--	--	--	398
Conventional .....	--	5	2,209	--	30	-52	17	--	6	2,169
Finished Aviation Gasoline .....	--	--	1	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel .....	--	--	258	--	45	--	14	--	1	287
Kerosene .....	--	--	6	--	--	--	-2	--	--	8
Distillate Fuel Oil .....	--	--	1,071	14	196	40	9	--	6	1,305
15 ppm sulfur and under .....	--	--	1,077	12	190	40	10	--	4	1,305
Greater than 15 ppm to 500 ppm sulfur .....	--	--	0	--	6	--	0	--	1	5
Greater than 500 ppm sulfur .....	--	--	-6	2	--	--	0	--	1	-5
Residual Fuel Oil <sup>6</sup> .....	--	--	50	3	-28	--	0	--	6	18
Less than 0.31 percent sulfur .....	--	--	1	--	-2	--	1	--	NA	NA
0.31 to 1.00 percent sulfur .....	--	--	6	1	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur .....	--	--	42	2	-26	--	-1	--	NA	NA
Petrochemical Feedstocks .....	--	--	34	5	-2	--	0	--	--	36
Naphtha for Petro. Feed. Use .....	--	--	23	3	-2	--	0	--	--	24
Other Oils for Petro. Feed. Use .....	--	--	11	3	-1	--	0	--	--	12
Special Naphthas .....	--	--	2	1	1	--	0	--	--	3
Lubricants .....	--	--	9	4	3	--	2	--	6	9
Waxes .....	--	--	1	0	--	--	0	--	1	0
Petroleum Coke .....	--	--	166	1	-12	--	-8	--	7	156
Marketable .....	--	--	119	1	-12	--	-8	--	7	109
Catalyst .....	--	--	47	--	--	--	--	--	--	47
Asphalt and Road Oil .....	--	--	169	5	-27	--	-8	--	4	152
Still Gas .....	--	--	142	--	--	--	--	--	--	142
Miscellaneous Products .....	--	--	13	--	0	--	0	--	0	13
<b>Total</b> .....	3,192	1,012	4,588	2,818	-1,091	-311	245	4,371	529	5,064

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.



**Table 12. PAD District 2 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-September 2018**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	<b>1,975</b>	--	--	<b>2,783</b>	<b>-577</b>	<b>-297</b>	<b>-71</b>	<b>3,840</b>	<b>116</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>966</b>	<b>-19</b>	<b>135</b>	<b>83</b>	<b>-321</b>	--	<b>60</b>	<b>98</b>	<b>293</b>	<b>393</b>
Natural Gas Liquids	966	-19	90	70	-296	--	61	98	293	358
Ethane	346	--	--	--	--	--	4	--	89	109
Propane	339	--	75	57	-239	--	26	--	5	201
Normal Butane	112	--	19	7	-72	--	34	17	12	4
Isobutane	59	--	-4	5	5	--	0	51	0	14
Natural Gasoline	109	-19	--	0	155	--	-3	29	188	32
Refinery Olefins	--	--	45	13	--	--	-1	--	--	34
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	43	12	-25	--	-1	--	--	31
Butylene	--	--	2	2	--	--	0	--	--	4
Isobutylene	--	--	0	--	--	--	0	--	--	0
<b>Other Liquids</b>	--	<b>1,042</b>	--	<b>17</b>	<b>-394</b>	<b>-70</b>	<b>3</b>	<b>568</b>	<b>94</b>	<b>-70</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,042	--	2	-685	-35	-4	304	24	0
Hydrogen	--	--	--	--	--	38	--	38	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,042	--	2	-685	-74	-4	266	24	0
Fuel Ethanol	--	964	--	--	-660	-38	-3	248	21	0
Renewable Fuels Except Fuel Ethanol	--	78	--	2	-24	-36	-2	17	3	0
Other Hydrocarbons	--	--	--	0	--	1	0	1	--	0
Unfinished Oils	--	--	--	2	0	--	5	-1	68	-70
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	13	290	-35	3	264	1	0
Reformulated	--	--	--	0	81	-44	-1	38	0	0
Conventional	--	0	--	13	209	10	3	227	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	<b>5</b>	<b>4,597</b>	<b>30</b>	<b>101</b>	<b>109</b>	<b>31</b>	--	<b>33</b>	<b>4,778</b>
Finished Motor Gasoline	--	5	2,597	--	17	72	1	--	7	2,684
Reformulated	--	--	364	--	--	53	--	--	--	417
Conventional	--	5	2,233	--	17	20	1	--	7	2,267
Finished Aviation Gasoline	--	--	2	0	1	--	0	--	--	2
Kerosene-Type Jet Fuel	--	--	262	--	37	--	4	--	2	294
Kerosene	--	--	3	0	0	--	0	--	0	3
Distillate Fuel Oil	--	--	1,137	6	123	36	23	--	4	1,276
15 ppm sulfur and under	--	--	1,137	4	119	36	22	--	1	1,274
Greater than 15 ppm to 500 ppm sulfur	--	--	3	--	3	--	0	--	2	4
Greater than 500 ppm sulfur	--	--	-3	2	--	--	1	--	2	-3
Residual Fuel Oil <sup>6</sup>	--	--	47	3	-24	--	0	--	5	22
Less than 0.31 percent sulfur	--	--	1	0	-1	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	1	0	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	39	2	-23	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	31	5	-3	--	0	--	--	32
Naphtha for Petro. Feed. Use	--	--	21	2	-3	--	0	--	--	20
Other Oils for Petro. Feed. Use	--	--	10	2	-1	--	0	--	--	12
Special Naphthas	--	--	2	1	1	--	0	--	--	4
Lubricants	--	--	7	4	7	--	0	--	7	11
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	190	1	-30	--	0	--	5	155
Marketable	--	--	141	1	-30	--	0	--	5	106
Catalyst	--	--	49	--	--	--	--	--	--	49
Asphalt and Road Oil	--	--	158	9	-26	--	3	--	3	134
Still Gas	--	--	146	--	--	--	--	--	--	146
Miscellaneous Products	--	--	16	0	0	--	0	--	0	16
<b>Total</b>	<b>2,941</b>	<b>1,028</b>	<b>4,732</b>	<b>2,913</b>	<b>-1,191</b>	<b>-259</b>	<b>22</b>	<b>4,506</b>	<b>536</b>	<b>5,101</b>

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 13. PAD District 3 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, September 2018**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil<sup>6</sup></b>	<b>222,353</b>	--	--	<b>74,943</b>	<b>26,356</b>	<b>16,448</b>	<b>6,786</b>	<b>273,633</b>	<b>59,682</b>	<b>0</b>	<b>880,827</b>
<b>Hydrocarbon Gas Liquids</b>	<b>76,203</b>	<b>-19</b>	<b>13,349</b>	<b>154</b>	<b>22,137</b>	--	<b>6,484</b>	<b>8,717</b>	<b>35,613</b>	<b>61,010</b>	<b>135,757</b>
Natural Gas Liquids	76,203	-19	6,227	--	21,511	--	6,594	8,717	35,613	52,998	130,355
Ethane	32,020	--	149	--	--	--	988	--	3,978	39,706	39,381
Propane	23,172	--	4,856	--	6,906	--	4,172	--	23,788	6,974	36,644
Normal Butane	4,670	--	1,571	--	3,352	--	824	2,559	7,715	-1,505	37,179
Isobutane	7,862	--	-349	--	879	--	463	3,522	109	4,298	6,872
Natural Gasoline	8,479	-19	--	--	-2,129	--	147	2,636	23	3,525	10,279
Refinery Olefins	--	--	7,122	154	--	--	-110	--	--	8,012	5,402
Ethylene	--	--	--	--	--	--	0	--	--	0	0
Propylene	--	--	7,067	--	--	--	168	--	--	7,525	3,402
Butylene	--	--	79	154	--	--	-278	--	--	511	2,000
Isobutylene	--	--	-24	--	--	--	0	--	--	-24	0
<b>Other Liquids</b>	--	<b>3,884</b>	--	<b>17,148</b>	<b>-58,978</b>	<b>2,679</b>	<b>1,575</b>	<b>-48,472</b>	<b>14,627</b>	<b>-2,997</b>	<b>127,215</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	3,884	--	119	4,999	4,208	964	8,908	3,337	0	8,052
Hydrogen	--	--	--	--	--	4,216	--	4,216	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,298	--	115	--	-288	56	--	2,069	0	1,497
Renewable Fuels (including Fuel Ethanol)	--	1,586	--	--	4,999	284	908	4,692	1,269	0	6,555
Fuel Ethanol	--	817	--	--	5,030	748	994	4,368	1,233	0	5,323
Renewable Fuels Except Fuel Ethanol	--	769	--	--	-32	-464	-86	324	35	0	1,232
Other Hydrocarbons	--	--	--	4	--	-4	--	--	--	0	--
Unfinished Oils	--	--	--	15,688	669	--	622	10,067	8,623	-2,955	47,054
Motor Gasoline Blend Comp. (MGBC)	--	--	--	1,341	-64,646	-1,529	5	-67,505	2,666	0	72,079
Reformulated	--	--	--	--	-12,028	5,114	317	-7,236	5	0	10,334
Conventional	--	--	--	1,341	-52,618	-6,643	-312	-60,269	2,661	0	61,745
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	-16	58	--	-42	30
<b>Finished Petroleum Products</b>	--	--	<b>239,934</b>	<b>5,360</b>	<b>-54,310</b>	<b>1,358</b>	<b>3,444</b>	--	<b>82,062</b>	<b>106,836</b>	<b>106,797</b>
Finished Motor Gasoline	--	--	68,574	--	-8,364	781	102	--	23,140	37,749	8,469
Reformulated	--	--	13,835	--	--	-5,876	--	--	--	7,959	--
Conventional	--	--	54,739	--	-8,364	6,656	102	--	23,140	29,790	8,469
Finished Aviation Gasoline	--	--	323	--	-22	--	75	--	--	226	452
Kerosene-Type Jet Fuel	--	--	29,197	--	-16,766	--	907	--	3,623	7,901	16,175
Kerosene	--	--	284	--	-304	--	119	--	--	-139	225
Distillate Fuel Oil	--	--	91,054	586	-29,144	577	874	--	35,196	27,003	41,529
15 ppm sulfur and under	--	--	83,262	399	-28,048	577	391	--	31,507	24,292	35,041
Greater than 15 ppm to 500 ppm sulfur	--	--	2,798	--	-172	--	217	--	2,029	380	1,655
Greater than 500 ppm sulfur	--	--	4,994	187	-924	--	266	--	1,660	2,331	4,833
Residual Fuel Oil <sup>7</sup>	--	--	5,795	2,973	928	--	343	--	6,115	3,238	15,063
Less than 0.31 percent sulfur	--	--	1,249	671	63	--	-36	--	NA	NA	705
0.31 to 1.00 percent sulfur	--	--	532	280	--	--	262	--	NA	NA	2,748
Greater than 1.00 percent sulfur	--	--	4,014	2,022	865	--	117	--	NA	NA	11,610
Petrochemical Feedstocks	--	--	9,295	317	69	--	85	--	--	9,596	2,782
Naphtha for Petro. Feed. Use	--	--	6,475	291	45	--	97	--	--	6,714	1,852
Other Oils for Petro. Feed. Use	--	--	2,820	26	24	--	-12	--	--	2,882	930
Special Naphthas	--	--	910	333	-25	--	29	--	--	1,189	862
Lubricants	--	--	4,099	1,083	-438	--	1,370	--	2,301	1,073	10,363
Waxes	--	--	74	68	--	--	-8	--	36	114	253
Petroleum Coke	--	--	14,912	--	324	--	-748	--	11,162	4,823	5,076
Marketable	--	--	11,191	--	324	--	-748	--	11,162	1,102	5,076
Catalyst	--	--	3,721	--	--	--	--	--	--	3,721	--
Asphalt and Road Oil	--	--	2,216	--	-566	--	278	--	478	894	5,131
Still Gas	--	--	11,392	--	--	--	--	--	--	11,392	--
Miscellaneous Products	--	--	1,809	--	-3	--	18	--	10	1,778	417
<b>Total</b>	<b>298,556</b>	<b>3,865</b>	<b>253,283</b>	<b>97,605</b>	<b>-64,795</b>	<b>20,485</b>	<b>18,289</b>	<b>233,878</b>	<b>191,983</b>	<b>164,849</b>	<b>1,250,596</b>

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-September 2018**  
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	Ending Stocks
<b>Crude Oil<sup>6</sup></b>	<b>1,872,476</b>	--	--	<b>711,009</b>	<b>214,002</b>	<b>119,073</b>	<b>13,461</b>	<b>2,443,356</b>	<b>459,743</b>	<b>0</b>	<b>880,827</b>
<b>Hydrocarbon Gas Liquids</b>	<b>639,506</b>	<b>-149</b>	<b>124,961</b>	<b>1,174</b>	<b>205,461</b>	--	<b>10,426</b>	<b>79,255</b>	<b>317,871</b>	<b>563,401</b>	<b>135,757</b>
Natural Gas Liquids	639,506	-149	63,045	1	201,190	--	9,976	79,255	317,871	496,491	--
Ethane	271,451	--	1,668	--	--	--	-10,283	--	37,970	365,518	--
Propane	194,488	--	44,127	1	72,235	--	3,106	--	235,271	72,474	--
Normal Butane	32,324	--	20,607	--	28,847	--	14,454	19,143	43,008	5,173	--
Isobutane	72,571	--	-3,357	--	6,644	--	1,506	32,725	1,428	40,199	--
Natural Gasoline	68,672	-149	--	--	-26,622	--	1,193	27,387	194	13,127	--
Refinery Olefins	--	--	61,916	1,173	--	--	450	--	--	66,910	--
Ethylene	--	--	7	--	--	--	0	--	--	7	--
Propylene	--	--	61,481	--	--	--	-621	--	--	66,373	--
Butylene	--	--	683	1,173	--	--	1,071	--	--	785	--
Isobutylene	--	--	-255	--	--	--	0	--	--	-255	--
<b>Other Liquids</b>	--	<b>35,426</b>	--	<b>154,476</b>	<b>-502,527</b>	<b>-4,925</b>	<b>1,123</b>	<b>-446,122</b>	<b>108,141</b>	<b>19,308</b>	<b>127,215</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	35,426	--	2,984	51,186	32,844	1,231	79,983	41,226	0	8,052
Hydrogen	--	--	--	--	--	36,284	--	36,284	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	21,969	--	2,565	--	-5,730	58	--	18,746	0	1,497
Renewable Fuels (including Fuel Ethanol)	--	13,457	--	367	51,186	2,342	1,173	43,699	22,480	0	6,555
Fuel Ethanol	--	7,351	--	--	49,650	6,746	1,245	40,418	22,084	0	5,323
Renewable Fuels Except Fuel Ethanol	--	6,106	--	367	1,536	-4,404	-72	3,281	396	0	1,232
Other Hydrocarbons	--	--	--	52	--	-52	0	--	--	0	--
Unfinished Oils	--	--	--	134,206	-151	--	2,134	57,183	55,171	19,567	47,054
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	17,286	-553,562	-37,769	-2,257	-583,532	11,744	0	72,079
Reformulated	--	--	--	--	-114,270	25,897	-798	-87,678	103	0	10,334
Conventional	--	--	--	17,286	-439,292	-63,666	-1,459	-495,854	11,641	0	61,745
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	15	244	--	-259	30
<b>Finished Petroleum Products</b>	--	--	<b>2,123,549</b>	<b>45,781</b>	<b>-463,058</b>	<b>37,095</b>	<b>-1,735</b>	--	<b>776,762</b>	<b>968,340</b>	<b>106,797</b>
Finished Motor Gasoline	--	--	620,134	597	-60,766	31,023	-413	--	208,638	382,764	8,469
Reformulated	--	--	127,208	--	--	-27,298	--	--	--	99,910	--
Conventional	--	--	492,926	597	-60,766	58,321	-413	--	208,638	282,853	8,469
Finished Aviation Gasoline	--	--	2,379	--	-975	--	-17	--	--	1,421	452
Kerosene-Type Jet Fuel	--	--	257,677	--	-154,064	--	2,331	--	48,361	52,921	16,175
Kerosene	--	--	320	--	-861	--	49	--	957	-1,547	225
Distillate Fuel Oil	--	--	787,817	1,956	-252,017	6,072	-4,293	--	309,949	238,172	41,529
15 ppm sulfur and under	--	--	717,519	1,034	-234,878	6,072	-3,762	--	269,638	223,872	35,041
Greater than 15 ppm to 500 ppm sulfur	--	--	20,423	--	-1,558	--	-586	--	20,930	-1,479	1,655
Greater than 500 ppm sulfur	--	--	49,875	922	-15,581	--	55	--	19,382	15,779	4,833
Residual Fuel Oil <sup>7</sup>	--	--	55,330	24,023	8,278	--	-1,294	--	67,530	21,395	15,063
Less than 0.31 percent sulfur	--	--	10,752	6,596	462	--	55	--	NA	NA	705
0.31 to 1.00 percent sulfur	--	--	5,847	1,273	1,166	--	-1,719	--	NA	NA	2,748
Greater than 1.00 percent sulfur	--	--	38,731	16,154	6,650	--	370	--	NA	NA	11,610
Petrochemical Feedstocks	--	--	76,984	3,743	875	--	469	--	--	81,133	2,782
Naphtha for Petro. Feed. Use	--	--	49,520	3,542	691	--	455	--	--	53,298	1,852
Other Oils for Petro. Feed. Use	--	--	27,464	201	184	--	14	--	--	27,835	930
Special Naphthas	--	--	8,841	3,601	-244	--	-137	--	--	12,335	862
Lubricants	--	--	39,886	9,035	-5,315	--	1,302	--	23,290	19,014	10,363
Waxes	--	--	861	331	--	--	-14	--	212	994	253
Petroleum Coke	--	--	134,801	2,436	6,922	--	-487	--	113,889	30,757	5,076
Marketable	--	--	102,258	2,436	6,922	--	-487	--	113,889	-1,786	5,076
Catalyst	--	--	32,543	--	--	--	--	--	--	32,543	--
Asphalt and Road Oil	--	--	22,412	--	-4,829	--	730	--	3,862	12,991	5,131
Still Gas	--	--	100,400	--	--	--	--	--	--	100,400	--
Miscellaneous Products	--	--	15,707	59	-62	--	39	--	74	15,591	417
<b>Total</b>	<b>2,511,982</b>	<b>35,277</b>	<b>2,248,510</b>	<b>912,440</b>	<b>-546,122</b>	<b>151,243</b>	<b>23,275</b>	<b>2,076,489</b>	<b>1,662,516</b>	<b>1,551,050</b>	<b>1,250,596</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 15. PAD District 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, September 2018**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil<sup>6</sup></b>	<b>7,412</b>	--	--	<b>2,498</b>	<b>879</b>	<b>548</b>	<b>226</b>	<b>9,121</b>	<b>1,989</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>2,540</b>	<b>-1</b>	<b>445</b>	<b>5</b>	<b>738</b>	--	<b>216</b>	<b>291</b>	<b>1,187</b>	<b>2,034</b>
Natural Gas Liquids	2,540	-1	208	--	717	--	220	291	1,187	1,767
Ethane	1,067	--	5	--	--	--	33	--	133	1,324
Propane	772	--	162	--	230	--	139	--	793	232
Normal Butane	156	--	52	--	112	--	27	85	257	-50
Isobutane	262	--	-12	--	29	--	15	117	4	143
Natural Gasoline	283	-1	--	--	-71	--	5	88	1	118
Refinery Olefins	--	--	237	5	--	--	-4	--	--	267
Ethylene	--	--	--	--	--	--	0	--	--	0
Propylene	--	--	236	--	21	--	6	--	--	251
Butylene	--	--	3	5	--	--	-9	--	--	17
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
<b>Other Liquids</b>	--	<b>129</b>	--	<b>572</b>	<b>-1,966</b>	<b>89</b>	<b>53</b>	<b>-1,616</b>	<b>488</b>	<b>-100</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	129	--	4	167	140	32	297	111	0
Hydrogen	--	--	--	--	--	141	--	141	--	0
Oxygenates (excluding Fuel Ethanol)	--	77	--	4	--	-10	2	--	69	0
Renewable Fuels (including Fuel Ethanol)	--	53	--	--	167	9	30	156	42	0
Fuel Ethanol	--	27	--	--	168	25	33	146	41	0
Renewable Fuels Except Fuel Ethanol	--	26	--	--	-1	-15	-3	11	1	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	523	22	--	21	336	287	-98
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	45	-2,155	-51	0	-2,250	89	0
Reformulated	--	--	--	--	-401	170	11	-241	0	0
Conventional	--	--	--	45	-1,754	-221	-10	-2,009	89	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	-1	2	--	-1
<b>Finished Petroleum Products</b>	--	--	<b>7,998</b>	<b>179</b>	<b>-1,810</b>	<b>45</b>	<b>115</b>	--	<b>2,735</b>	<b>3,561</b>
Finished Motor Gasoline	--	--	2,286	--	-279	26	3	--	771	1,258
Reformulated	--	--	461	--	--	-196	--	--	--	265
Conventional	--	--	1,825	--	-279	222	3	--	771	993
Finished Aviation Gasoline	--	--	11	--	-1	--	3	--	--	8
Kerosene-Type Jet Fuel	--	--	973	--	-559	--	30	--	121	263
Kerosene	--	--	9	--	-10	--	4	--	--	-5
Distillate Fuel Oil	--	--	3,035	20	-971	19	29	--	1,173	900
15 ppm sulfur and under	--	--	2,775	13	-935	19	13	--	1,050	810
Greater than 15 ppm to 500 ppm sulfur	--	--	93	--	-6	--	7	--	68	13
Greater than 500 ppm sulfur	--	--	166	6	-31	--	9	--	55	78
Residual Fuel Oil <sup>7</sup>	--	--	193	99	31	--	11	--	204	108
Less than 0.31 percent sulfur	--	--	42	22	2	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	18	9	--	--	9	--	NA	NA
Greater than 1.00 percent sulfur	--	--	134	67	29	--	4	--	NA	NA
Petrochemical Feedstocks	--	--	310	11	2	--	3	--	--	320
Naphtha for Petro. Feed. Use	--	--	216	10	2	--	3	--	--	224
Other Oils for Petro. Feed. Use	--	--	94	1	1	--	0	--	--	96
Special Naphthas	--	--	30	11	-1	--	1	--	--	40
Lubricants	--	--	137	36	-15	--	46	--	77	36
Waxes	--	--	2	2	--	--	0	--	1	4
Petroleum Coke	--	--	497	--	11	--	-25	--	372	161
Marketable	--	--	373	--	11	--	-25	--	372	37
Catalyst	--	--	124	--	--	--	--	--	--	124
Asphalt and Road Oil	--	--	74	--	-19	--	9	--	16	30
Still Gas	--	--	380	--	--	--	--	--	--	380
Miscellaneous Products	--	--	60	--	0	--	1	--	0	59
<b>Total</b>	<b>9,952</b>	<b>129</b>	<b>8,443</b>	<b>3,254</b>	<b>-2,160</b>	<b>683</b>	<b>610</b>	<b>7,796</b>	<b>6,399</b>	<b>5,495</b>

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 16. PAD District 3 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-September 2018**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil<sup>6</sup></b>	<b>6,859</b>	--	--	<b>2,604</b>	<b>784</b>	<b>436</b>	<b>49</b>	<b>8,950</b>	<b>1,684</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>2,343</b>	<b>-1</b>	<b>458</b>	<b>4</b>	<b>753</b>	--	<b>38</b>	<b>290</b>	<b>1,164</b>	<b>2,064</b>
Natural Gas Liquids	2,343	-1	231	0	737	--	37	290	1,164	1,819
Ethane	994	--	6	--	--	--	-38	--	139	1,339
Propane	712	--	162	0	265	--	11	--	862	265
Normal Butane	118	--	721	--	106	--	53	70	158	19
Isobutane	266	--	-12	--	24	--	6	120	5	147
Natural Gasoline	252	-1	--	--	-98	--	4	100	1	48
Refinery Olefins	--	--	227	4	--	--	2	--	--	245
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	225	--	16	--	-2	--	--	243
Butylene	--	--	3	4	--	--	4	--	--	3
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
<b>Other Liquids</b>	--	<b>130</b>	--	<b>566</b>	<b>-1,841</b>	<b>-18</b>	<b>4</b>	<b>-1,634</b>	<b>396</b>	<b>71</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	130	--	11	187	120	5	293	151	0
Hydrogen	--	--	--	--	--	133	--	133	--	0
Oxygenates (excluding Fuel Ethanol)	--	80	--	9	--	-21	0	--	69	0
Renewable Fuels (including Fuel Ethanol)	--	49	--	1	187	9	4	160	82	0
Fuel Ethanol	--	27	--	--	182	25	5	148	81	0
Renewable Fuels Except Fuel Ethanol	--	22	--	1	6	-16	0	12	1	0
Other Hydrocarbons	--	--	--	0	--	0	0	--	--	0
Unfinished Oils	--	--	--	492	-1	--	8	209	202	72
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	63	-2,028	-138	-8	-2,137	43	0
Reformulated	--	--	--	--	-419	95	-3	-321	0	0
Conventional	--	--	--	63	-1,609	-233	-5	-1,816	43	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	1	--	-1
<b>Finished Petroleum Products</b>	--	--	<b>7,779</b>	<b>168</b>	<b>-1,696</b>	<b>136</b>	<b>-6</b>	--	<b>2,845</b>	<b>3,547</b>
Finished Motor Gasoline	--	--	2,272	2	-223	114	-2	--	764	1,402
Reformulated	--	--	466	--	--	-100	--	--	--	366
Conventional	--	--	1,806	2	-223	214	-2	--	764	1,036
Finished Aviation Gasoline	--	--	9	--	-4	--	0	--	--	5
Kerosene-Type Jet Fuel	--	--	944	--	-564	--	9	--	177	194
Kerosene	--	--	1	--	-3	--	0	--	4	-6
Distillate Fuel Oil	--	--	2,886	7	-923	22	-16	--	1,135	872
15 ppm sulfur and under	--	--	2,628	4	-860	22	-14	--	988	820
Greater than 15 ppm to 500 ppm sulfur	--	--	75	--	-6	--	-2	--	77	-5
Greater than 500 ppm sulfur	--	--	183	3	-57	--	0	--	71	58
Residual Fuel Oil <sup>7</sup>	--	--	203	88	30	--	-5	--	247	78
Less than 0.31 percent sulfur	--	--	39	24	2	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	21	5	4	--	-6	--	NA	NA
Greater than 1.00 percent sulfur	--	--	142	59	24	--	1	--	NA	NA
Petrochemical Feedstocks	--	--	282	14	3	--	2	--	--	297
Naphtha for Petro. Feed. Use	--	--	181	13	3	--	2	--	--	195
Other Oils for Petro. Feed. Use	--	--	101	1	1	--	0	--	--	102
Special Naphthas	--	--	32	13	-1	--	-1	--	--	45
Lubricants	--	--	146	33	-19	--	5	--	85	70
Waxes	--	--	3	1	--	--	0	--	1	4
Petroleum Coke	--	--	494	9	25	--	-2	--	417	113
Marketable	--	--	375	9	25	--	-2	--	417	-7
Catalyst	--	--	119	--	--	--	--	--	--	119
Asphalt and Road Oil	--	--	82	--	-18	--	3	--	14	48
Still Gas	--	--	368	--	--	--	--	--	--	368
Miscellaneous Products	--	--	58	0	0	--	0	--	0	57
<b>Total</b>	<b>9,201</b>	<b>129</b>	<b>8,236</b>	<b>3,342</b>	<b>-2,000</b>	<b>554</b>	<b>85</b>	<b>7,606</b>	<b>6,090</b>	<b>5,682</b>

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.



**Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, September 2018**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b>	<b>27,064</b>	--	--	<b>11,165</b>	<b>-16,725</b>	<b>-2,343</b>	<b>-528</b>	<b>19,689</b>	--	<b>0</b>	<b>21,627</b>
<b>Hydrocarbon Gas Liquids</b>	<b>13,371</b>	<b>-9</b>	<b>264</b>	<b>272</b>	<b>-12,821</b>	--	<b>227</b>	<b>555</b>	<b>60</b>	<b>235</b>	<b>4,778</b>
Natural Gas Liquids	13,371	-9	212	272	-12,821	--	211	555	60	199	4,752
Ethane	4,105	--	--	--	--	--	-1	--	--	192	519
Propane	4,577	--	266	247	-4,507	--	135	--	1	447	1,569
Normal Butane	1,823	--	7	15	-1,678	--	92	205	1	-131	2,086
Isobutane	841	--	-61	10	-928	--	-20	178	--	-296	232
Natural Gasoline	2,025	-9	--	--	-1,794	--	5	172	58	-13	346
Refinery Olefins	--	--	52	--	--	--	16	--	--	36	26
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	11	--	--	--	1	--	--	10	1
Butylene	--	--	41	--	--	--	15	--	--	26	25
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
<b>Other Liquids</b>	--	<b>396</b>	--	<b>79</b>	<b>1,002</b>	<b>-844</b>	<b>486</b>	<b>-88</b>	<b>11</b>	<b>224</b>	<b>9,126</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	396	--	5	283	488	1	1,161	11	0	451
Hydrogen	--	--	--	--	--	205	--	205	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	396	--	5	283	283	1	956	11	0	451
Fuel Ethanol	--	396	--	--	264	281	24	906	11	0	382
Renewable Fuels Except Fuel Ethanol	--	--	--	5	20	2	-23	50	0	0	69
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	4	-228	0	224	3,309
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	74	719	-1,333	481	-1,021	0	0	5,366
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	719	-1,333	481	-1,021	0	0	5,366
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>20,695</b>	<b>85</b>	<b>-267</b>	<b>1,028</b>	<b>476</b>	--	<b>19</b>	<b>21,046</b>	<b>7,858</b>
Finished Motor Gasoline	--	--	9,595	--	-590	1,052	87	--	--	9,970	1,608
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	9,595	--	-590	1,052	87	--	--	9,970	1,608
Finished Aviation Gasoline	--	--	8	--	--	--	1	--	--	7	10
Kerosene-Type Jet Fuel	--	--	1,087	25	786	--	68	--	--	1,830	715
Kerosene	--	--	--	--	--	--	-1	--	--	1	1
Distillate Fuel Oil	--	--	6,691	49	217	-23	490	--	--	6,444	3,841
15 ppm sulfur and under	--	--	6,624	49	217	-23	461	--	--	6,406	3,619
Greater than 15 ppm to 500 ppm sulfur	--	--	46	--	--	--	8	--	--	38	148
Greater than 500 ppm sulfur	--	--	21	--	--	--	21	--	--	0	74
Residual Fuel Oil <sup>6</sup>	--	--	393	--	--	--	-5	--	6	392	284
Less than 0.31 percent sulfur	--	--	206	--	--	--	0	--	NA	NA	28
0.31 to 1.00 percent sulfur	--	--	36	--	--	--	7	--	NA	NA	34
Greater than 1.00 percent sulfur	--	--	151	--	--	--	-12	--	NA	NA	222
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	9	-9	--
Waxes	--	--	--	--	--	--	--	--	1	-1	--
Petroleum Coke	--	--	796	--	-213	--	-10	--	--	593	114
Marketable	--	--	540	--	-213	--	-10	--	--	337	114
Catalyst	--	--	256	--	--	--	--	--	--	256	--
Asphalt and Road Oil	--	--	1,285	10	-467	--	-156	--	4	980	1,263
Still Gas	--	--	710	--	--	--	--	--	--	710	--
Miscellaneous Products	--	--	130	1	--	--	2	--	0	129	22
<b>Total</b>	<b>40,435</b>	<b>387</b>	<b>20,959</b>	<b>11,601</b>	<b>-28,810</b>	<b>-2,159</b>	<b>661</b>	<b>20,156</b>	<b>90</b>	<b>21,506</b>	<b>43,389</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as "Unaccounted For Crude Oil." Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-September 2018**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b> .....	<b>228,148</b>	--	--	<b>100,062</b>	<b>-144,257</b>	<b>-14,358</b>	<b>-735</b>	<b>170,200</b>	<b>130</b>	<b>0</b>	<b>21,627</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>115,356</b>	<b>-80</b>	<b>3,067</b>	<b>2,832</b>	<b>-106,137</b>	--	<b>1,145</b>	<b>5,181</b>	<b>685</b>	<b>8,027</b>	<b>4,778</b>
Natural Gas Liquids .....	115,356	-80	2,872	2,832	-106,137	--	1,134	5,181	685	7,843	--
Ethane .....	35,536	--	--	--	--	--	51	--	--	1,911	--
Propane .....	40,056	--	2,387	2,492	-37,054	--	85	--	4	7,792	--
Normal Butane .....	15,662	--	721	129	-13,872	--	1,050	2,019	89	-518	--
Isobutane .....	7,190	--	-236	211	-7,652	--	-43	1,703	--	-2,147	--
Natural Gasoline .....	16,912	-80	--	--	-13,985	--	-9	1,459	592	805	--
Refinery Olefins .....	--	--	195	--	--	--	11	--	--	184	--
Ethylene .....	--	--	--	--	--	--	--	--	--	--	--
Propylene .....	--	--	31	--	--	--	1	--	--	30	--
Butylene .....	--	--	164	--	--	--	10	--	--	154	--
Isobutylene .....	--	--	--	--	--	--	0	--	--	0	--
<b>Other Liquids</b> .....	--	<b>3,786</b>	--	<b>724</b>	<b>4,773</b>	<b>-7,523</b>	<b>255</b>	<b>133</b>	<b>20</b>	<b>1,352</b>	<b>9,126</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	--	3,786	--	19	3,431	3,437	117	10,544	12	0	451
Hydrogen .....	--	--	--	--	--	1,886	--	1,886	--	0	--
Oxygenates (excluding Fuel Ethanol) .....	--	--	--	--	--	0	0	--	0	0	--
Renewable Fuels (including Fuel Ethanol) .....	--	3,786	--	19	3,431	1,551	117	8,658	12	0	451
Fuel Ethanol .....	--	3,786	--	--	3,106	1,394	58	8,218	11	0	382
Renewable Fuels Except Fuel Ethanol .....	--	--	--	19	325	157	59	440	1	0	69
Other Hydrocarbons .....	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils .....	--	--	--	30	--	--	558	-1,887	7	1,352	3,309
Motor Gasoline Blend.Comp. (MGBC) .....	--	--	--	675	1,342	-10,961	-420	-8,524	0	0	5,366
Reformulated .....	--	--	--	--	--	--	--	--	--	--	--
Conventional .....	--	--	--	--	1,342	-10,961	-420	-8,524	0	0	5,366
Aviation Gasoline Blend. Comp. ....	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b> .....	--	--	<b>180,166</b>	<b>800</b>	<b>-7,076</b>	<b>9,467</b>	<b>-724</b>	--	<b>228</b>	<b>183,853</b>	<b>7,858</b>
Finished Motor Gasoline .....	--	--	85,159	--	-5,647	9,566	-206	--	10	89,274	1,608
Reformulated .....	--	--	--	--	--	--	--	--	--	--	--
Conventional .....	--	--	85,159	--	-5,647	9,566	-206	--	10	89,274	1,608
Finished Aviation Gasoline .....	--	--	46	5	--	--	1	--	--	50	10
Kerosene-Type Jet Fuel .....	--	--	10,114	71	6,570	--	-7	--	--	16,762	715
Kerosene .....	--	--	1	--	--	--	-1	--	1	1	1
Distillate Fuel Oil .....	--	--	56,222	458	-198	-100	-367	--	0	56,749	3,841
15 ppm sulfur and under .....	--	--	55,901	458	-158	-100	-351	--	0	56,452	3,619
Greater than 15 ppm to 500 ppm sulfur .....	--	--	319	--	-40	--	-24	--	--	303	148
Greater than 500 ppm sulfur .....	--	--	2	--	--	--	8	--	--	-6	74
Residual Fuel Oil <sup>6</sup> .....	--	--	3,217	--	--	--	69	--	84	3,064	284
Less than 0.31 percent sulfur .....	--	--	1,762	--	--	--	-4	--	NA	NA	28
0.31 to 1.00 percent sulfur .....	--	--	230	--	--	--	30	--	NA	NA	34
Greater than 1.00 percent sulfur .....	--	--	1,225	--	--	--	43	--	NA	NA	222
Petrochemical Feedstocks .....	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use .....	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use .....	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas .....	--	--	--	--	--	--	--	--	--	--	--
Lubricants .....	--	--	--	--	--	--	--	--	77	-77	--
Waxes .....	--	--	--	--	--	--	--	--	3	-3	--
Petroleum Coke .....	--	--	7,082	--	-2,770	--	31	--	14	4,267	114
Marketable .....	--	--	4,924	--	-2,770	--	31	--	14	2,109	114
Catalyst .....	--	--	2,158	--	--	--	--	--	--	2,158	--
Asphalt and Road Oil .....	--	--	11,091	257	-5,031	--	-250	--	37	6,530	1,263
Still Gas .....	--	--	6,239	--	--	--	--	--	--	6,239	--
Miscellaneous Products .....	--	--	995	9	--	--	6	--	1	997	22
<b>Total</b> .....	<b>343,504</b>	<b>3,706</b>	<b>183,233</b>	<b>104,418</b>	<b>-252,697</b>	<b>-12,415</b>	<b>-59</b>	<b>175,514</b>	<b>1,063</b>	<b>193,232</b>	<b>43,389</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, September 2018**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	<b>902</b>	--	--	<b>372</b>	<b>-557</b>	<b>-78</b>	<b>-18</b>	<b>656</b>	--	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>446</b>	<b>0</b>	<b>9</b>	<b>9</b>	<b>-427</b>	--	<b>8</b>	<b>19</b>	<b>2</b>	<b>8</b>
Natural Gas Liquids	446	0	7	9	-427	--	7	19	2	7
Ethane	137	--	--	--	--	--	0	--	--	6
Propane	153	--	9	8	-150	--	5	--	0	15
Normal Butane	61	--	0	1	-56	--	3	7	0	-4
Isobutane	28	--	-2	0	-31	--	-1	6	--	-10
Natural Gasoline	68	0	--	--	-60	--	0	6	2	0
Refinery Olefins	--	--	2	--	--	--	1	--	--	1
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Butylene	--	--	1	--	--	--	1	--	--	1
Isobutylene	--	--	--	--	--	--	0	--	--	0
<b>Other Liquids</b>	--	<b>13</b>	--	<b>3</b>	<b>33</b>	<b>-28</b>	<b>16</b>	<b>-3</b>	<b>0</b>	<b>7</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	13	--	0	9	16	0	39	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	13	--	0	9	9	0	32	0	0
Fuel Ethanol	--	13	--	--	9	9	1	30	0	0
Renewable Fuels Except Fuel Ethanol	--	--	--	0	1	0	-1	2	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	0	-8	0	7
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	2	24	-44	16	-34	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	24	-44	16	-34	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>690</b>	<b>3</b>	<b>-9</b>	<b>34</b>	<b>16</b>	--	<b>1</b>	<b>702</b>
Finished Motor Gasoline	--	--	320	--	-20	35	3	--	--	332
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	320	--	-20	35	3	--	--	332
Finished Aviation Gasoline	--	--	0	--	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	36	1	26	--	2	--	--	61
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	223	2	7	-1	16	--	--	215
15 ppm sulfur and under	--	--	221	2	7	-1	15	--	--	214
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	--	--	0	--	--	1
Greater than 500 ppm sulfur	--	--	1	--	--	--	1	--	--	0
Residual Fuel Oil <sup>6</sup>	--	--	13	--	--	--	0	--	0	13
Less than 0.31 percent sulfur	--	--	7	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	5	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	27	--	-7	--	0	--	--	20
Marketable	--	--	18	--	-7	--	0	--	--	11
Catalyst	--	--	9	--	--	--	--	--	--	9
Asphalt and Road Oil	--	--	43	0	-16	--	-5	--	0	33
Still Gas	--	--	24	--	--	--	--	--	--	24
Miscellaneous Products	--	--	4	0	--	--	0	--	0	4
<b>Total</b>	<b>1,348</b>	<b>13</b>	<b>699</b>	<b>387</b>	<b>-960</b>	<b>-72</b>	<b>22</b>	<b>672</b>	<b>3</b>	<b>717</b>

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.



**Table 20. PAD District 4 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-September 2018**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	<b>836</b>	<b>--</b>	<b>--</b>	<b>367</b>	<b>-528</b>	<b>-53</b>	<b>-3</b>	<b>623</b>	<b>0</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>423</b>	<b>0</b>	<b>11</b>	<b>10</b>	<b>-389</b>	<b>--</b>	<b>4</b>	<b>19</b>	<b>3</b>	<b>29</b>
Natural Gas Liquids	423	0	11	10	-389	--	4	19	3	29
Ethane	130	--	--	--	--	--	0	--	--	7
Propane	147	--	9	9	-136	--	0	--	0	29
Normal Butane	57	--	3	0	-51	--	4	7	0	-2
Isobutane	26	--	-1	1	-28	--	0	6	--	-8
Natural Gasoline	62	0	--	--	-51	--	0	5	2	3
Refinery Olefins	--	--	1	--	--	--	0	--	--	1
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Butylene	--	--	1	--	--	--	0	--	--	1
Isobutylene	--	--	--	--	--	--	0	--	--	0
<b>Other Liquids</b>	<b>--</b>	<b>14</b>	<b>--</b>	<b>3</b>	<b>17</b>	<b>-28</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>5</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	0	13	13	0	39	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	13	6	0	32	0	0
Fuel Ethanol	--	14	--	--	11	5	0	30	0	0
Renewable Fuels Except Fuel Ethanol	--	--	--	0	1	1	0	2	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	0	--	--	2	-7	0	5
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	2	5	-40	-2	-31	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	5	-40	-2	-31	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	<b>--</b>	<b>--</b>	<b>660</b>	<b>3</b>	<b>-26</b>	<b>35</b>	<b>-3</b>	<b>--</b>	<b>1</b>	<b>673</b>
Finished Motor Gasoline	--	--	312	--	-21	35	-1	--	0	327
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	312	--	-21	35	-1	--	0	327
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	37	0	24	--	0	--	--	61
Kerosene	--	--	0	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	206	2	-1	0	-1	--	0	208
15 ppm sulfur and under	--	--	205	2	-1	0	-1	--	0	207
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	0	--	0	--	--	1
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Residual Fuel Oil <sup>6</sup>	--	--	12	--	--	--	0	--	0	11
Less than 0.31 percent sulfur	--	--	6	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	4	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	26	--	-10	--	0	--	0	16
Marketable	--	--	18	--	-10	--	0	--	0	8
Catalyst	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil	--	--	41	1	-18	--	-1	--	0	24
Still Gas	--	--	23	--	--	--	--	--	--	23
Miscellaneous Products	--	--	4	0	--	--	0	--	0	4
<b>Total</b>	<b>1,258</b>	<b>14</b>	<b>671</b>	<b>382</b>	<b>-926</b>	<b>-45</b>	<b>0</b>	<b>643</b>	<b>4</b>	<b>708</b>

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 21. PAD District 5 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, September 2018**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b>	<b>28,497</b>	--	--	<b>37,720</b>	<b>4,622</b>	<b>6,263</b>	<b>358</b>	<b>76,744</b>	--	<b>0</b>	<b>49,080</b>
<b>Hydrocarbon Gas Liquids</b>	<b>1,853</b>	<b>-11</b>	<b>2,224</b>	<b>1,457</b>	<b>835</b>	--	<b>735</b>	<b>2,294</b>	<b>1,347</b>	<b>1,982</b>	<b>6,672</b>
Natural Gas Liquids	1,853	-11	1,943	1,457	835	--	704	2,294	1,347	1,732	6,615
Ethane	1	--	--	--	--	--	--	--	1	0	--
Propane	313	--	1,218	964	522	--	363	--	868	1,786	2,260
Normal Butane	271	--	490	432	257	--	259	721	471	-1	3,752
Isobutane	408	--	235	61	56	--	74	808	0	-122	560
Natural Gasoline	860	-11	--	--	--	--	8	765	8	68	43
Refinery Olefins	--	--	281	--	--	--	31	--	--	250	57
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	251	--	--	--	3	--	--	248	12
Butylene	--	--	30	--	--	--	28	--	--	2	45
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
<b>Other Liquids</b>	--	<b>844</b>	--	<b>3,728</b>	<b>9,527</b>	<b>-2,658</b>	<b>-1,095</b>	<b>12,127</b>	<b>378</b>	<b>30</b>	<b>50,420</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	844	--	361	5,440	-200	-205	6,506	144	0	3,941
Hydrogen	--	--	--	--	--	1,265	--	1,265	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	844	--	361	5,440	-1,465	-205	5,241	143	0	3,941
Fuel Ethanol	--	592	--	35	4,854	-806	-166	4,782	58	0	2,720
Renewable Fuels Except Fuel Ethanol	--	252	--	326	586	-659	-39	459	85	0	1,221
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	3,367	--	--	57	3,251	29	30	19,977
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	--	4,087	-2,459	-947	2,370	205	0	26,502
Reformulated	--	--	--	--	2,128	-324	-443	2,245	2	0	12,757
Conventional	--	--	--	--	1,959	-2,135	-504	125	203	0	13,745
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>95,150</b>	<b>5,628</b>	<b>1,607</b>	<b>3,638</b>	<b>2,360</b>	--	<b>10,096</b>	<b>93,568</b>	<b>35,908</b>
Finished Motor Gasoline	--	--	48,240	68	381	3,265	166	--	2,166	49,622	2,338
Reformulated	--	--	33,841	--	--	134	1	--	--	33,974	20
Conventional	--	--	14,399	68	381	3,131	165	--	2,166	15,648	2,318
Finished Aviation Gasoline	--	--	55	--	--	--	47	--	--	8	232
Kerosene-Type Jet Fuel	--	--	15,122	3,261	202	--	1,328	--	789	16,468	10,420
Kerosene	--	--	11	--	--	--	-1	--	--	12	2
Distillate Fuel Oil	--	--	17,848	373	752	373	619	--	2,590	16,137	13,124
15 ppm sulfur and under	--	--	16,957	223	752	373	444	--	2,051	15,810	11,993
Greater than 15 ppm to 500 ppm sulfur	--	--	354	--	--	--	-13	--	99	268	235
Greater than 500 ppm sulfur	--	--	537	150	--	--	188	--	440	59	896
Residual Fuel Oil <sup>6</sup>	--	--	3,242	1,647	--	--	250	--	980	3,659	5,259
Less than 0.31 percent sulfur	--	--	2	--	--	--	-26	--	NA	NA	187
0.31 to 1.00 percent sulfur	--	--	637	157	--	--	17	--	NA	NA	864
Greater than 1.00 percent sulfur	--	--	2,603	1,490	--	--	259	--	NA	NA	4,200
Petrochemical Feedstocks	--	--	1	35	--	--	0	--	--	36	3
Naphtha for Petro. Feed. Use	--	--	1	35	--	--	0	--	--	36	3
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	27	--	--	--	-12	--	--	39	40
Lubricants	--	--	582	4	-92	--	109	--	298	87	1,174
Waxes	--	--	--	49	--	--	--	--	4	45	--
Petroleum Coke	--	--	4,875	23	-50	--	-123	--	3,141	1,830	1,494
Marketable	--	--	3,712	23	-50	--	-123	--	3,141	667	1,494
Catalyst	--	--	1,163	--	--	--	--	--	--	1,163	--
Asphalt and Road Oil	--	--	869	168	414	--	-31	--	128	1,354	1,715
Still Gas	--	--	3,842	--	--	--	--	--	--	3,842	--
Miscellaneous Products	--	--	436	--	--	--	8	--	0	428	107
<b>Total</b>	<b>30,350</b>	<b>833</b>	<b>97,374</b>	<b>48,533</b>	<b>16,591</b>	<b>7,242</b>	<b>2,358</b>	<b>91,165</b>	<b>11,821</b>	<b>95,579</b>	<b>142,080</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-September 2018**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b>	<b>259,894</b>	<b>--</b>	<b>--</b>	<b>365,188</b>	<b>39,143</b>	<b>14,293</b>	<b>-1,926</b>	<b>677,657</b>	<b>2,786</b>	<b>0</b>	<b>49,080</b>
<b>Hydrocarbon Gas Liquids</b>	<b>17,568</b>	<b>-124</b>	<b>18,278</b>	<b>10,864</b>	<b>7,212</b>	<b>--</b>	<b>3,338</b>	<b>22,167</b>	<b>12,492</b>	<b>15,801</b>	<b>6,672</b>
Natural Gas Liquids	17,568	-124	15,803	10,862	7,212	--	3,309	22,167	12,492	13,353	--
Ethane	8	--	--	--	--	--	--	--	1	7	--
Propane	2,790	--	10,338	7,886	3,260	--	799	--	8,791	14,684	--
Normal Butane	2,930	--	3,747	2,647	3,207	--	2,357	7,107	3,578	-511	--
Isobutane	3,509	--	1,718	329	745	--	144	7,539	3	-1,385	--
Natural Gasoline	8,331	-124	--	--	--	--	9	7,521	120	557	--
Refinery Olefins	--	--	2,475	2	--	--	29	--	--	2,448	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	2,524	2	--	--	-15	--	--	2,541	--
Butylene	--	--	-49	--	--	--	44	--	--	-93	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
<b>Other Liquids</b>	<b>--</b>	<b>8,068</b>	<b>--</b>	<b>34,750</b>	<b>87,965</b>	<b>-17,361</b>	<b>-4,424</b>	<b>113,022</b>	<b>5,372</b>	<b>-548</b>	<b>50,420</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	8,068	--	3,895	45,789	3,980	212	59,583	1,937	0	3,941
Hydrogen	--	--	--	--	--	11,285	--	11,285	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	8	--	--	8	0	--
Renewable Fuels (including Fuel Ethanol)	--	8,068	--	3,895	45,789	-7,313	212	48,298	1,929	0	3,941
Fuel Ethanol	--	5,531	--	339	42,584	-3,496	168	43,499	1,291	0	2,720
Renewable Fuels Except Fuel Ethanol	--	2,537	--	3,556	3,205	-3,816	44	4,799	638	0	1,221
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	24,751	--	--	69	24,457	773	-548	19,977
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	6,104	42,176	-21,341	-4,705	28,982	2,662	0	26,502
Reformulated	--	--	--	951	22,022	-1,980	-3,540	24,515	18	0	12,757
Conventional	--	--	--	5,153	20,154	-19,361	-1,165	4,467	2,644	0	13,745
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	<b>--</b>	<b>--</b>	<b>850,316</b>	<b>38,770</b>	<b>21,367</b>	<b>26,775</b>	<b>941</b>	<b>--</b>	<b>98,130</b>	<b>838,156</b>	<b>35,908</b>
Finished Motor Gasoline	--	--	438,524	1,848	4,743	24,837	434	--	17,149	452,369	2,338
Reformulated	--	--	307,403	--	--	1,403	4	--	--	308,802	20
Conventional	--	--	131,121	1,848	4,743	23,434	430	--	17,149	143,567	2,318
Finished Aviation Gasoline	--	--	401	3	--	--	2	--	--	402	232
Kerosene-Type Jet Fuel	--	--	131,525	22,288	2,685	--	177	--	7,038	149,283	10,420
Kerosene	--	--	79	--	--	--	-40	--	17	102	2
Distillate Fuel Oil	--	--	153,840	3,192	8,979	1,937	-948	--	25,640	143,256	13,124
15 ppm sulfur and under	--	--	147,261	3,006	8,939	1,937	-1,135	--	18,309	143,969	11,993
Greater than 15 ppm to 500 ppm sulfur	--	--	2,783	--	40	--	-5	--	1,779	1,049	235
Greater than 500 ppm sulfur	--	--	3,796	186	--	--	192	--	5,552	-1,762	896
Residual Fuel Oil <sup>6</sup>	--	--	30,641	9,514	--	--	1,009	--	9,377	29,769	5,259
Less than 0.31 percent sulfur	--	--	58	--	--	--	20	--	NA	NA	187
0.31 to 1.00 percent sulfur	--	--	5,713	1,560	--	--	344	--	NA	NA	864
Greater than 1.00 percent sulfur	--	--	24,870	7,954	--	--	643	--	NA	NA	4,200
Petrochemical Feedstocks	--	--	21	340	--	--	1	--	--	360	3
Naphtha for Petro. Feed. Use	--	--	21	340	--	--	1	--	--	360	3
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	319	--	--	--	-5	--	--	324	40
Lubricants	--	--	5,839	89	-359	--	159	--	3,302	2,108	1,174
Waxes	--	--	--	299	--	--	--	--	51	248	--
Petroleum Coke	--	--	43,691	233	-236	--	138	--	35,109	8,441	1,494
Marketable	--	--	33,865	233	-236	--	138	--	35,109	-1,385	1,494
Catalyst	--	--	9,826	--	--	--	--	--	--	9,826	--
Asphalt and Road Oil	--	--	7,128	964	5,555	--	29	--	372	13,246	1,715
Still Gas	--	--	34,429	--	--	--	--	--	--	34,429	--
Miscellaneous Products	--	--	3,879	--	--	--	-15	--	74	3,820	107
<b>Total</b>	<b>277,462</b>	<b>7,944</b>	<b>868,594</b>	<b>449,572</b>	<b>155,687</b>	<b>23,706</b>	<b>-2,071</b>	<b>812,846</b>	<b>118,781</b>	<b>853,409</b>	<b>142,080</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, September 2018**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	<b>950</b>	--	--	<b>1,257</b>	<b>154</b>	<b>209</b>	<b>12</b>	<b>2,558</b>	--	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>62</b>	<b>0</b>	<b>74</b>	<b>49</b>	<b>28</b>	--	<b>25</b>	<b>76</b>	<b>45</b>	<b>66</b>
Natural Gas Liquids	62	0	65	49	28	--	23	76	45	58
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	10	--	41	32	17	--	12	--	29	60
Normal Butane	9	--	16	14	9	--	9	24	16	0
Isobutane	14	--	8	2	2	--	2	27	0	-4
Natural Gasoline	29	0	--	--	--	--	0	26	0	2
Refinery Olefins	--	--	9	--	--	--	1	--	--	8
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	8	--	--	--	0	--	--	8
Butylene	--	--	1	--	--	--	1	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
<b>Other Liquids</b>	--	<b>28</b>	--	<b>124</b>	<b>318</b>	<b>-89</b>	<b>-36</b>	<b>404</b>	<b>13</b>	<b>1</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	28	--	12	181	-7	-7	217	5	0
Hydrogen	--	--	--	--	--	42	--	42	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	28	--	12	181	-49	-7	175	5	0
Fuel Ethanol	--	20	--	1	162	-27	-6	159	2	0
Renewable Fuels Except Fuel Ethanol	--	8	--	11	20	-22	-1	15	3	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	112	--	--	2	108	1	1
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	--	136	-82	-32	79	7	0
Reformulated	--	--	--	--	71	-11	-15	75	0	0
Conventional	--	--	--	--	65	-71	-17	4	7	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>3,172</b>	<b>188</b>	<b>54</b>	<b>121</b>	<b>79</b>	--	<b>337</b>	<b>3,119</b>
Finished Motor Gasoline	--	--	1,608	2	13	109	6	--	72	1,654
Reformulated	--	--	1,128	--	--	4	0	--	--	1,132
Conventional	--	--	480	2	13	104	6	--	72	522
Finished Aviation Gasoline	--	--	2	--	--	--	2	--	--	0
Kerosene-Type Jet Fuel	--	--	504	109	7	--	44	--	26	549
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	595	12	25	12	21	--	86	538
15 ppm sulfur and under	--	--	565	7	25	12	15	--	68	527
Greater than 15 ppm to 500 ppm sulfur	--	--	12	--	--	--	0	--	3	9
Greater than 500 ppm sulfur	--	--	18	5	--	--	6	--	15	2
Residual Fuel Oil <sup>6</sup>	--	--	108	55	--	--	8	--	33	122
Less than 0.31 percent sulfur	--	--	0	--	--	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	21	5	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	87	50	--	--	9	--	NA	NA
Petrochemical Feedstocks	--	--	0	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	0	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	19	0	-3	--	4	--	10	3
Waxes	--	--	2	--	--	--	--	--	0	1
Petroleum Coke	--	--	163	1	-2	--	-4	--	105	61
Marketable	--	--	124	1	-2	--	-4	--	105	22
Catalyst	--	--	39	--	--	--	--	--	--	39
Asphalt and Road Oil	--	--	29	6	14	--	-1	--	4	45
Still Gas	--	--	128	--	--	--	--	--	--	128
Miscellaneous Products	--	--	15	--	--	--	0	--	0	14
<b>Total</b>	<b>1,012</b>	<b>28</b>	<b>3,246</b>	<b>1,618</b>	<b>553</b>	<b>241</b>	<b>79</b>	<b>3,039</b>	<b>394</b>	<b>3,186</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 24. PAD District 5 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-September 2018**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	<b>952</b>	<b>--</b>	<b>--</b>	<b>1,338</b>	<b>143</b>	<b>52</b>	<b>-7</b>	<b>2,482</b>	<b>10</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>64</b>	<b>0</b>	<b>67</b>	<b>40</b>	<b>26</b>	<b>--</b>	<b>12</b>	<b>81</b>	<b>46</b>	<b>58</b>
Natural Gas Liquids	64	0	58	40	26	--	12	81	46	49
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	10	--	38	29	12	--	3	--	32	54
Normal Butane	11	--	14	10	12	--	9	26	13	-2
Isobutane	13	--	6	1	3	--	1	28	0	-5
Natural Gasoline	31	0	--	--	--	--	0	28	0	2
Refinery Olefins	--	--	9	0	--	--	0	--	--	9
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	9	0	--	--	0	--	--	9
Butylene	--	--	0	--	--	--	0	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
<b>Other Liquids</b>	<b>--</b>	<b>30</b>	<b>--</b>	<b>127</b>	<b>322</b>	<b>-64</b>	<b>-16</b>	<b>414</b>	<b>20</b>	<b>-2</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	30	--	14	168	15	1	218	7	0
Hydrogen	--	--	--	--	--	41	--	41	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	30	--	14	168	-27	1	177	7	0
Fuel Ethanol	--	20	--	1	156	-13	1	159	5	0
Renewable Fuels Except Fuel Ethanol	--	9	--	13	12	-14	0	18	2	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	91	--	--	0	90	3	-2
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	22	154	-78	-17	106	10	0
Reformulated	--	--	--	3	81	-7	-13	90	0	0
Conventional	--	--	--	19	74	-71	-4	16	10	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	<b>--</b>	<b>--</b>	<b>3,115</b>	<b>142</b>	<b>78</b>	<b>98</b>	<b>3</b>	<b>--</b>	<b>359</b>	<b>3,070</b>
Finished Motor Gasoline	--	--	1,606	7	17	91	2	--	63	1,657
Reformulated	--	--	1,126	--	--	5	0	--	--	1,131
Conventional	--	--	480	7	17	86	2	--	63	526
Finished Aviation Gasoline	--	--	1	0	--	--	0	--	--	1
Kerosene-Type Jet Fuel	--	--	482	82	10	--	1	--	26	547
Kerosene	--	--	0	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	564	12	33	7	-3	--	94	525
15 ppm sulfur and under	--	--	539	11	33	7	-4	--	67	527
Greater than 15 ppm to 500 ppm sulfur	--	--	10	--	0	--	0	--	7	4
Greater than 500 ppm sulfur	--	--	14	1	--	--	1	--	20	-6
Residual Fuel Oil <sup>6</sup>	--	--	112	35	--	--	4	--	34	109
Less than 0.31 percent sulfur	--	--	0	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	21	6	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	91	29	--	--	2	--	NA	NA
Petrochemical Feedstocks	--	--	0	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	0	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	21	0	-1	--	1	--	12	8
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	160	1	-1	--	1	--	129	31
Marketable	--	--	124	1	-1	--	1	--	129	-5
Catalyst	--	--	36	--	--	--	--	--	--	36
Asphalt and Road Oil	--	--	26	4	20	--	0	--	1	49
Still Gas	--	--	126	--	--	--	--	--	--	126
Miscellaneous Products	--	--	14	--	--	--	0	--	0	14
<b>Total</b>	<b>1,016</b>	<b>29</b>	<b>3,182</b>	<b>1,647</b>	<b>570</b>	<b>87</b>	<b>-8</b>	<b>2,977</b>	<b>435</b>	<b>3,126</b>

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 25. Crude Oil Supply, Disposition, and Ending Stocks by PAD District, September 2018**  
(Thousand Barrels, Except Where Noted)

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Supply</b>							
Field Production .....	1,982	64,343	222,353	27,064	28,497	344,239	11,475
Alaskan .....	--	--	--	--	--	14,143	471
Lower 48 States .....	--	--	--	--	--	330,096	11,003
Imports (PAD District of Entry) .....	23,425	80,410	74,943	11,165	37,720	227,663	7,589
Commercial .....	23,425	80,410	74,943	11,165	37,720	227,663	7,589
Strategic Petroleum Reserve (SPR) .....	--	--	--	--	--	--	--
Net Receipts .....	6,092	-20,345	26,356	-16,725	4,622	--	--
Adjustments <sup>1</sup> .....	373	-10,321	16,448	-2,343	6,263	10,420	347
<b>Disposition</b>							
Stock Change <sup>2</sup> .....	900	1,769	6,786	-528	358	9,285	310
Commercial .....	--	--	6,788	--	--	9,287	310
SPR .....	--	--	-2	--	--	-2	0
Refinery Inputs .....	30,088	109,413	273,633	19,689	76,744	509,567	16,986
Exports .....	884	2,905	59,682	--	--	63,470	2,116
<b>Ending Stocks</b>							
Total .....	12,259	112,357	880,827	21,627	49,080	1,076,150	--
Commercial .....	12,259	112,357	220,818	21,627	49,080	416,141	--
Refinery .....	10,557	13,631	49,550	2,516	23,312	99,566	--
Tank Farms and Pipelines .....	1,702	98,726	171,268	19,111	21,915	312,722	--
Cushing, Oklahoma .....	--	26,102	--	--	--	26,102	--
Lease .....	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water .....	--	--	--	--	3,853	3,853	--
SPR .....	--	--	660,009	--	--	660,009	--
<b>SPR Stocks</b>							
Percent of Total Crude Oil Stocks (Percent) .....	--	--	--	--	--	61.3	--
Percent of Total Petroleum Stocks (Percent) .....	--	--	--	--	--	34.2	--
Days of Total Petroleum Net Imports (Days) .....	--	--	--	--	--	290	--
<b>SPR Receipts Detail</b>							
Receipts .....	--	--	--	--	--	--	--
Domestic .....	--	--	--	--	--	--	--
Imports .....	--	--	--	--	--	--	--
Imported by SPR .....	--	--	--	--	--	--	--
Imported for SPR by Others .....	--	--	--	--	--	--	--
<b>Imports</b>							
PAD District of Entry .....	23,425	80,410	74,943	11,165	37,720	227,663	7,589
PAD District of Processing .....	25,290	69,297	85,490	9,278	38,308	227,663	7,589

-- = Not Applicable.

-- = No Data Reported.

<sup>1</sup> Crude oil adjustment was previously referred to as Unaccounted-for Crude Oil.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

Notes: Totals may not equal the sum of components due to independent rounding. Values of Domestic Crude Oil Field Production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," and EIA-817, "Monthly Tanker and Barge Movements Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.



**Table 26. Production of Crude Oil by PAD District and State, September 2018**  
(Thousand Barrels)

PAD District and State	September 2018		January-September 2018	
	Total	Daily Average	Total	Daily Average
<b>PAD District 1</b> .....	<b>1,982</b>	<b>66</b>	<b>15,055</b>	<b>55</b>
Florida .....	156	5	1,358	5
New York .....	15	1	137	1
Pennsylvania .....	555	19	4,859	18
Virginia .....	0	0	3	0
West Virginia .....	1,254	42	8,699	32
<b>PAD District 2</b> .....	<b>64,343</b>	<b>2,145</b>	<b>539,287</b>	<b>1,975</b>
Illinois .....	692	23	6,226	23
Indiana .....	129	4	1,249	5
Kansas .....	2,831	94	26,111	96
Kentucky .....	307	10	1,740	6
Michigan .....	438	15	4,072	15
Missouri .....	6	0	71	0
Nebraska .....	174	6	1,513	6
North Dakota .....	40,132	1,338	333,391	1,221
Ohio .....	2,367	79	16,518	61
Oklahoma .....	17,143	571	147,281	539
South Dakota .....	107	4	956	4
Tennessee .....	17	1	158	1
<b>PAD District 3</b> .....	<b>222,353</b>	<b>7,412</b>	<b>1,872,476</b>	<b>6,859</b>
Alabama .....	460	15	4,464	16
Arkansas .....	415	14	3,720	14
Louisiana .....	3,720	124	34,904	128
Mississippi .....	1,464	49	12,920	47
New Mexico .....	22,129	738	176,832	648
Texas .....	140,766	4,692	1,174,883	4,304
Federal Offshore PAD District 3 .....	53,400	1,780	464,754	1,702
<b>PAD District 4</b> .....	<b>27,064</b>	<b>902</b>	<b>228,148</b>	<b>836</b>
Colorado .....	14,229	474	121,177	444
Idaho .....	10	0	88	0
Montana .....	1,847	62	15,664	57
Utah .....	3,274	109	27,593	101
Wyoming .....	7,705	257	63,626	233
<b>PAD District 5</b> .....	<b>28,497</b>	<b>950</b>	<b>259,894</b>	<b>952</b>
Alaska .....	14,143	471	129,441	474
South Alaska .....	443	15	4,141	15
North Slope .....	13,700	457	125,299	459
Arizona .....	1	0	9	0
California .....	13,927	464	126,339	463
Nevada .....	21	1	186	1
Federal Offshore PAD District 5 .....	405	14	3,919	14
<b>U.S. Total</b> .....	<b>344,239</b>	<b>11,475</b>	<b>2,914,860</b>	<b>10,677</b>

— = No Data Reported.

Note: Year-to-date totals include revised monthly production estimates by state published in Petroleum Navigator. Crude oil production quantities are estimated by state and summed to the PADD and the U.S. level. State production estimates reported by EIA are normally different from data reported by state agencies. For example, production estimates for Texas reported on table 26 are different from production reported by the Railroad Commission of Texas. See EIA "Today In Energy" article released on July 10, 2015 (<http://www.eia.gov/todayinenergy/detail.cfm?id=22012>) for an explanation of differences in production data for Texas. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," state government agencies, U.S. Department of the Interior, and the Bureau of Ocean Energy Management.

**Table 27. Natural Gas Plant Net Production and Stocks of Petroleum Products by PAD and Refining Districts, September 2018**  
(Thousand Barrels)

Commodity	Production						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids .....	13	16,083	16,096	6,064	8,097	17,252	31,413
Natural Gas Liquids .....	13	16,083	16,096	6,064	8,097	17,252	31,413
Ethane .....	—	6,900	6,900	2,294	1,657	7,434	11,385
Propane .....	4	5,241	5,245	2,349	3,257	5,178	10,784
Normal Butane .....	9	1,609	1,618	445	1,478	1,814	3,737
Isobutane .....	—	797	797	532	381	879	1,792
Natural Gasoline .....	—	1,536	1,536	444	1,324	1,947	3,715

Commodity	Production								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids .....	56,994	5,535	6,051	861	6,762	76,203	13,371	1,853	138,936
Natural Gas Liquids .....	56,994	5,535	6,051	861	6,762	76,203	13,371	1,853	138,936
Ethane .....	23,846	2,609	2,491	336	2,738	32,020	4,105	1	54,411
Propane .....	17,420	1,537	1,911	177	2,127	23,172	4,577	313	44,091
Normal Butane .....	6,055	2,777	654	73	665	4,670	1,823	271	12,119
Isobutane .....	3,320	3,629	386	63	464	7,862	841	408	11,700
Natural Gasoline .....	6,353	537	609	212	768	8,479	2,025	860	16,615

Commodity	Stocks						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids .....	7	278	285	1,255	149	727	2,131
Natural Gas Liquids .....	7	278	285	1,255	149	727	2,131
Ethane .....	—	—	—	95	2	179	276
Propane .....	3	137	140	772	55	226	1,053
Normal Butane .....	4	49	53	161	33	148	342
Isobutane .....	—	15	15	173	8	81	262
Natural Gasoline .....	—	77	77	54	51	93	198

Commodity	Stocks								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids .....	125	356	1,479	27	—	1,987	151	631	5,185
Natural Gas Liquids .....	125	356	1,479	27	—	1,987	151	631	5,185
Ethane .....	26	70	—	—	—	96	1	—	373
Propane .....	31	181	23	19	—	254	62	8	1,517
Normal Butane .....	35	77	1,105	5	—	1,222	35	540	2,192
Isobutane .....	12	8	182	—	—	202	12	48	539
Natural Gasoline .....	21	20	169	3	—	213	41	35	564

— = No Data Reported.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-816, "Monthly Natural Gas Liquids Report."



**Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2018**  
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
<b>Crude Oil</b> .....	<b>27,174</b>	<b>2,914</b>	<b>30,088</b>	<b>71,972</b>	<b>12,506</b>	<b>24,935</b>	<b>109,413</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>2,081</b>	<b>—</b>	<b>2,081</b>	<b>1,933</b>	<b>121</b>	<b>1,251</b>	<b>3,305</b>
Natural Gas Liquids .....	2,081	—	2,081	1,933	121	1,251	3,305
Normal Butane .....	1,496	—	1,496	223	68	294	585
Isobutane .....	431	—	431	1,037	44	378	1,459
Natural Gasoline .....	154	—	154	673	9	579	1,261
<b>Other Liquids</b> .....	<b>73,259</b>	<b>6,103</b>	<b>79,362</b>	<b>11,908</b>	<b>3,965</b>	<b>2,546</b>	<b>18,419</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	9,527	776	10,303	5,629	1,537	1,796	8,962
Hydrogen .....	89	11	100	544	233	168	945
Oxygenates (excluding Fuel Ethanol) .....	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup> .....	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) .....	9,438	765	10,203	5,063	1,304	1,628	7,995
Fuel Ethanol .....	9,238	711	9,949	4,775	1,059	1,556	7,390
Renewable Diesel Fuel <sup>2</sup> .....	200	54	254	288	245	72	605
Other Renewable Fuels .....	—	—	—	—	—	—	—
Other Hydrocarbons .....	—	—	—	22	—	—	22
Unfinished Oils (net) .....	1,324	-130	1,194	-690	-44	-386	-1,120
Naphthas and Lighter .....	587	-95	492	285	-134	-229	-78
Kerosene and Light Gas Oils .....	243	—	243	75	-158	80	-3
Heavy Gas Oils .....	647	-38	609	-338	248	-327	-417
Residuum .....	-153	3	-150	-712	—	90	-622
Motor Gasoline Blend.Comp. (MGBC)(net) .....	62,408	5,457	67,865	6,969	2,472	1,136	10,577
Reformulated - RBOB .....	10,440	138	10,578	-426	1,085	1,088	1,747
Conventional .....	51,968	5,319	57,287	7,395	1,387	48	8,830
CBOB .....	42,303	5,299	47,602	7,283	1,701	295	9,279
GTAB .....	3,949	—	3,949	—	—	—	—
Other .....	5,716	20	5,736	112	-314	-247	-449
Aviation Gasoline Blend. Comp. (net) .....	—	—	—	—	—	—	—
<b>Total Input</b> .....	<b>102,514</b>	<b>9,017</b>	<b>111,531</b>	<b>85,813</b>	<b>16,592</b>	<b>28,732</b>	<b>131,137</b>

See footnotes at end of table.

**Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2018**  
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
<b>Crude Oil</b> .....	<b>20,530</b>	<b>140,448</b>	<b>101,710</b>	<b>6,801</b>	<b>4,144</b>	<b>273,633</b>	<b>19,689</b>	<b>76,744</b>	<b>509,567</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>355</b>	<b>4,813</b>	<b>3,355</b>	<b>59</b>	<b>135</b>	<b>8,717</b>	<b>555</b>	<b>2,294</b>	<b>16,952</b>
Natural Gas Liquids .....	355	4,813	3,355	59	135	8,717	555	2,294	16,952
Normal Butane .....	119	1,345	1,047	48	—	2,559	205	721	5,566
Isobutane .....	86	1,924	1,369	8	135	3,522	178	808	6,398
Natural Gasoline .....	150	1,544	939	3	—	2,636	172	765	4,988
<b>Other Liquids</b> .....	<b>8,804</b>	<b>-38,638</b>	<b>-25,406</b>	<b>7,100</b>	<b>-332</b>	<b>-48,472</b>	<b>-88</b>	<b>12,127</b>	<b>61,348</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	2,111	3,319	2,154	1,096	228	8,908	1,161	6,506	35,840
Hydrogen .....	28	2,428	1,650	66	44	4,216	205	1,265	6,731
Oxygenates (excluding Fuel Ethanol) .....	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup> .....	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) .....	2,083	891	504	1,030	184	4,692	956	5,241	29,087
Fuel Ethanol .....	1,963	814	459	971	161	4,368	906	4,782	27,395
Renewable Diesel Fuel <sup>2</sup> .....	120	77	45	59	23	324	50	455	1,688
Other Renewable Fuels .....	—	—	—	—	—	—	—	4	4
Other Hydrocarbons .....	—	—	—	—	—	—	—	—	22
Unfinished Oils (net) .....	-114	864	10,068	-516	-235	10,067	-228	3,251	13,164
Naphthas and Lighter .....	-379	-6,106	14	-123	-124	-6,718	-112	195	-6,221
Kerosene and Light Gas Oils .....	241	-468	-318	-20	-20	-585	-278	27	-596
Heavy Gas Oils .....	22	8,242	9,752	-295	-91	17,630	162	2,727	20,711
Residuum .....	2	-804	620	-78	—	-260	0	302	-730
Motor Gasoline Blend.Comp. (MGBC)(net) .....	6,751	-42,821	-37,630	6,520	-325	-67,505	-1,021	2,370	12,286
Reformulated - RBOB .....	5,699	-9,643	-2,743	—	-549	-7,236	—	2,245	7,334
Conventional .....	1,052	-33,178	-34,887	6,520	224	-60,269	-1,021	125	4,952
CBOB .....	1,199	-34,974	-34,169	6,506	243	-61,195	-1,025	-300	-5,639
GTAB .....	—	—	—	—	—	—	—	—	3,949
Other .....	-147	1,796	-718	14	-19	926	4	425	6,642
Aviation Gasoline Blend. Comp. (net) .....	56	—	2	—	—	58	—	—	58
<b>Total Input</b> .....	<b>29,689</b>	<b>106,623</b>	<b>79,659</b>	<b>13,960</b>	<b>3,947</b>	<b>233,878</b>	<b>20,156</b>	<b>91,165</b>	<b>587,867</b>

— = No Data Reported.

<sup>1</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

<sup>2</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report."

**Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, September 2018**  
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids .....	696	14	710	2,256	265	442	2,963
Natural Gas Liquids .....	456	14	470	1,299	131	257	1,687
Ethane .....	-	-	-	-	-	-	-
Propane .....	552	22	574	1,390	208	371	1,969
Normal Butane .....	-101	7	-94	-48	-55	-68	-171
Isobutane .....	5	-15	-10	-43	-22	-46	-111
Natural Gasoline .....	-	-	-	-	-	-	-
Refinery Olefins .....	240	-	240	957	134	185	1,276
Ethylene .....	3	-	3	-	-	-	-
Propylene .....	273	-	273	886	134	199	1,219
Butylene .....	-56	-	-56	71	-	-3	68
Isobutylene .....	20	-	20	-	-	-11	-11
Finished Motor Gasoline .....	87,143	7,194	94,337	51,038	10,166	15,843	77,047
Reformulated .....	38,252	151	38,403	7,962	1,481	1,321	10,764
Reformulated Blended with Fuel Ethanol .....	38,252	151	38,403	7,962	1,481	1,321	10,764
Reformulated Other .....	-	-	-	-	-	-	-
Conventional .....	48,891	7,043	55,934	43,076	8,685	14,522	66,283
Conventional Blended with Fuel Ethanol .....	53,050	6,973	60,023	39,245	9,161	13,747	62,153
Ed55 and Lower .....	53,005	6,973	59,978	39,229	9,131	13,670	62,030
Greater than Ed55 .....	45	-	45	16	30	77	123
Conventional Other .....	-4,159	70	-4,089	3,831	-476	775	4,130
Finished Aviation Gasoline .....	-	-	-	-	19	-	19
Kerosene-Type Jet Fuel .....	2,535	10	2,545	5,905	838	993	7,736
Kerosene .....	215	-	215	158	-	10	168
Distillate Fuel Oil .....	8,334	828	9,162	18,603	3,695	9,835	32,133
15 ppm sulfur and under .....	7,875	696	8,571	18,764	3,663	9,877	32,304
Greater than 15 ppm to 500 ppm sulfur .....	66	97	163	-48	-	48	0
Greater than 500 ppm sulfur .....	393	35	428	-113	32	-90	-171
Residual Fuel Oil .....	1,957	-	1,957	1,190	181	121	1,492
Less than 0.31 percent sulfur .....	678	-	678	42	-	-	42
0.31 to 1.00 percent sulfur .....	556	-	556	129	52	-	181
Greater than 1.00 percent sulfur .....	723	-	723	1,019	129	121	1,269
Petrochemical Feedstocks .....	71	-	71	971	-	34	1,005
Naphtha for Petro. Feed. Use .....	71	-	71	686	-	-	686
Other Oils for Petro. Feed. Use .....	-	-	-	285	-	34	319
Special Naphthas .....	-	22	22	41	-	14	55
Lubricants .....	158	148	306	-	-	273	273
Waxes .....	-	18	18	-	-	29	29
Petroleum Coke .....	933	19	952	3,424	613	957	4,994
Marketable .....	357	-	357	2,393	458	732	3,583
Catalyst .....	576	19	595	1,031	155	225	1,411
Asphalt and Road Oil .....	507	638	1,145	3,481	1,233	364	5,078
Still Gas .....	1,211	50	1,261	2,703	531	1,030	4,264
Miscellaneous Products .....	79	25	104	263	79	52	394
<b>Total .....</b>	<b>103,839</b>	<b>8,966</b>	<b>112,805</b>	<b>90,033</b>	<b>17,620</b>	<b>29,997</b>	<b>137,650</b>
Processing Gain(-) or Loss(+) <sup>1</sup> .....	<b>-1,325</b>	<b>51</b>	<b>-1,274</b>	<b>-4,220</b>	<b>-1,028</b>	<b>-1,265</b>	<b>-6,513</b>

See footnotes at end of table.

**Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, September 2018**  
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids .....	854	6,955	5,501	-8	47	13,349	264	2,224	19,510
Natural Gas Liquids .....	388	3,465	2,340	-13	47	6,227	212	1,943	10,539
Ethane .....	2	129	18	—	—	149	—	—	149
Propane .....	313	2,320	2,178	3	42	4,856	266	1,218	8,883
Normal Butane .....	143	1,406	24	-16	14	1,571	7	490	1,803
Isobutane .....	-70	-390	120	—	-9	-349	-61	235	-296
Natural Gasoline .....	—	—	—	—	—	—	—	—	—
Refinery Olefins .....	466	3,490	3,161	5	—	7,122	52	281	8,971
Ethylene .....	—	—	—	—	—	—	—	—	3
Propylene .....	465	3,477	3,120	5	—	7,067	11	251	8,821
Butylene .....	1	37	41	—	—	79	41	30	162
Isobutylene .....	—	-24	—	—	—	-24	—	—	-15
Finished Motor Gasoline .....	20,077	22,598	15,032	8,988	1,879	68,574	9,595	48,240	297,793
Reformulated .....	7,470	6,365	—	—	—	13,835	—	33,841	96,843
Reformulated Blended with Fuel Ethanol .....	7,470	6,365	—	—	—	13,835	—	33,841	96,843
Reformulated Other .....	—	—	—	—	—	—	—	—	—
Conventional .....	12,607	16,233	15,032	8,988	1,879	54,739	9,595	14,399	200,950
Conventional Blended with Fuel Ethanol .....	11,857	1,609	4,551	9,628	1,618	29,263	9,008	13,763	174,210
Ed55 and Lower .....	11,839	1,609	4,551	9,615	1,618	29,232	8,994	13,759	173,993
Greater than Ed55 .....	18	—	—	13	—	31	14	4	217
Conventional Other .....	750	14,624	10,481	-640	261	25,476	587	636	26,740
Finished Aviation Gasoline .....	86	112	125	—	—	323	8	55	405
Kerosene-Type Jet Fuel .....	1,400	15,319	12,341	137	—	29,197	1,087	15,122	55,687
Kerosene .....	-1	150	123	12	—	284	—	11	678
Distillate Fuel Oil .....	6,421	45,780	34,762	2,349	1,742	91,054	6,691	17,848	156,888
15 ppm sulfur and under .....	6,433	43,761	29,120	2,206	1,742	83,262	6,624	16,957	147,718
Greater than 15 ppm to 500 ppm sulfur .....	-12	256	2,523	31	—	2,798	46	354	3,361
Greater than 500 ppm sulfur .....	—	1,763	3,119	112	—	4,994	21	537	5,809
Residual Fuel Oil .....	386	1,747	3,608	-35	89	5,795	393	3,242	12,879
Less than 0.31 percent sulfur .....	228	29	992	—	—	1,249	206	2	2,177
0.31 to 1.00 percent sulfur .....	—	121	429	-35	17	532	36	637	1,942
Greater than 1.00 percent sulfur .....	158	1,597	2,187	—	72	4,014	151	2,603	8,760
Petrochemical Feedstocks .....	145	5,915	3,235	—	—	9,295	—	1	10,372
Naphtha for Petro. Feed. Use .....	134	4,293	2,048	—	—	6,475	—	1	7,233
Other Oils for Petro. Feed. Use .....	11	1,622	1,187	—	—	2,820	—	—	3,139
Special Naphthas .....	62	624	—	224	—	910	—	27	1,014
Lubricants .....	26	1,737	1,548	788	—	4,099	—	582	5,260
Waxes .....	—	42	8	24	—	74	—	—	121
Petroleum Coke .....	438	8,435	5,861	138	40	14,912	796	4,875	26,529
Marketable .....	190	6,421	4,446	134	—	11,191	540	3,712	19,383
Catalyst .....	248	2,014	1,415	4	40	3,721	256	1,163	7,146
Asphalt and Road Oil .....	154	500	583	901	78	2,216	1,285	869	10,593
Still Gas .....	779	6,113	4,241	184	75	11,392	710	3,842	21,469
Miscellaneous Products .....	122	1,069	557	17	44	1,809	130	436	2,873
<b>Total .....</b>	<b>30,949</b>	<b>117,096</b>	<b>87,525</b>	<b>13,719</b>	<b>3,994</b>	<b>253,283</b>	<b>20,959</b>	<b>97,374</b>	<b>622,071</b>
Processing Gain(-) or Loss(+) <sup>1</sup> .....	<b>-1,260</b>	<b>-10,473</b>	<b>-7,866</b>	<b>241</b>	<b>-47</b>	<b>-19,405</b>	<b>-803</b>	<b>-6,209</b>	<b>-34,204</b>

— = No Data Reported.

<sup>1</sup> Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report."

**Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2018**  
(Thousand Barrels, Except Where Noted)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
<b>Crude Oil</b> .....	27,174	2,914	30,088	71,972	12,506	24,935	109,413
<b>Hydrocarbon Gas Liquids</b> .....	1,009	—	1,009	1,824	44	881	2,749
Natural Gas Liquids .....	1,009	—	1,009	1,824	44	881	2,749
Normal Butane .....	578	—	578	116	—	—	116
Isobutane .....	431	—	431	1,037	44	378	1,459
Natural Gasoline .....	—	—	—	671	—	503	1,174
<b>Other Liquids</b> .....	-12,314	42	-12,272	-32,112	-4,982	-10,957	-48,051
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	160	143	303	825	380	280	1,485
Hydrogen .....	89	11	100	544	233	168	945
Oxygenates (excluding Fuel Ethanol) .....	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup> .....	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) .....	71	132	203	259	147	112	518
Fuel Ethanol .....	71	108	179	164	86	93	343
Renewable Diesel Fuel <sup>2</sup> .....	—	24	24	95	61	19	175
Other Renewable Fuels .....	—	—	—	—	—	—	—
Other Hydrocarbons .....	—	—	—	22	—	—	22
Unfinished Oils (net) .....	1,324	-130	1,194	-702	-44	-386	-1,132
Naphthas and Lighter .....	587	-95	492	285	-134	-229	-78
Kerosene and Light Gas Oils .....	243	—	243	75	-158	80	-3
Heavy Gas Oils .....	647	-38	609	-338	248	-327	-417
Residuum .....	-153	3	-150	-724	—	90	-634
Motor Gasoline Blend.Comp. (MGBC)(net) .....	-13,798	29	-13,769	-32,235	-5,318	-10,851	-48,404
Reformulated - RBOB .....	-9,460	—	-9,460	-7,389	-247	-100	-7,736
Conventional .....	-4,338	29	-4,309	-24,846	-5,071	-10,751	-40,668
CBOB .....	-4,780	9	-4,771	-24,941	-4,757	-10,507	-40,205
GTAB .....	—	—	—	—	—	—	—
Other .....	442	20	462	95	-314	-244	-463
Aviation Gasoline Blend. Comp. (net) .....	—	—	—	—	—	—	—
<b>Total Input to Refineries</b> .....	15,869	2,956	18,825	41,684	7,568	14,859	64,111
<b>Atmospheric Crude Oil Distillation</b>							
Gross Input (daily average) .....	906	101	1,006	2,374	417	834	3,626
Operable Capacity (daily average) .....	1,125	98	1,224	2,640	540	912	4,092
Operable Utilization Rate (percent) <sup>3</sup> .....	80.5	102.3	82.3	89.9	77.3	91.5	88.6
<b>Downstream Processing</b>							
<b>Fresh Feed Input (daily average)</b>							
Catalytic Reforming .....	169	16	185	441	51	143	636
Catalytic Cracking .....	331	16	347	711	136	195	1,042
Catalytic Hydrocracking .....	32	—	32	171	53	56	280
Delayed and Fluid Coking .....	51	—	51	285	47	94	427
<b>Crude Oil Qualities</b>							
Sulfur Content, Weighted Average (percent) .....	0.98	1.65	1.04	1.52	1.91	0.74	1.38
API Gravity, Weighted Average (degrees) .....	33.94	32.32	33.79	32.97	28.49	37.63	33.49
<b>Operable Capacity (daily average)</b> .....	1,125	98	1,224	2,640	540	912	4,092
Operating .....	1,125	98	1,224	2,613	502	912	4,027
Idle .....	—	—	—	28	38	—	66
<b>Alaskan Crude Oil Receipts</b> .....	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2018**  
(Thousand Barrels, Except Where Noted) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
<b>Crude Oil</b>	<b>20,530</b>	<b>140,448</b>	<b>101,710</b>	<b>6,801</b>	<b>4,144</b>	<b>273,633</b>	<b>19,689</b>	<b>76,744</b>	<b>509,567</b>
<b>Hydrocarbon Gas Liquids</b>	<b>341</b>	<b>3,934</b>	<b>3,271</b>	<b>11</b>	<b>135</b>	<b>7,692</b>	<b>482</b>	<b>2,251</b>	<b>14,183</b>
Natural Gas Liquids	341	3,934	3,271	11	135	7,692	482	2,251	14,183
Normal Butane	114	972	963	—	—	2,049	157	678	3,578
Isobutane	86	1,924	1,369	8	135	3,522	172	808	6,392
Natural Gasoline	141	1,038	939	3	—	2,121	153	765	4,213
<b>Other Liquids</b>	<b>-8,399</b>	<b>-49,336</b>	<b>-28,257</b>	<b>-1,588</b>	<b>-1,431</b>	<b>-89,011</b>	<b>-4,710</b>	<b>-33,124</b>	<b>-187,168</b>
Hydrogen/Oxygenates/Renewables/									
Other Hydrocarbons	284	2,488	1,870	116	104	4,862	529	1,499	8,678
Hydrogen	28	2,428	1,650	66	44	4,216	205	1,265	6,731
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup>	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	256	60	220	50	60	646	324	234	1,925
Fuel Ethanol	195	47	175	26	49	492	284	85	1,383
Renewable Diesel Fuel <sup>2</sup>	61	13	45	24	11	154	40	149	542
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	22
Unfinished Oils (net)	-114	976	9,977	-516	-235	10,088	-228	3,251	13,173
Naphthas and Lighter	-379	-6,106	14	-123	-124	-6,718	-112	195	-6,221
Kerosene and Light Gas Oils	241	-356	-318	-20	-20	-473	-278	27	-484
Heavy Gas Oils	22	8,242	9,661	-295	-91	17,539	162	2,727	20,620
Residuum	2	-804	620	-78	—	-260	0	302	-742
Motor Gasoline Blend.Comp. (MGB)(net)	-8,625	-52,800	-40,106	-1,188	-1,300	-104,019	-5,011	-37,874	-209,077
Reformulated - RBOB	-1,028	-14,129	-2,743	—	-549	-18,449	—	-27,654	-63,299
Conventional	-7,597	-38,671	-37,363	-1,188	-751	-85,570	-5,011	-10,220	-145,778
CBOB	-7,450	-33,626	-35,421	-1,197	-728	-78,422	-5,013	-10,615	-139,026
GTAB	—	—	—	—	—	—	—	—	—
Other	-147	-5,045	-1,942	9	-23	-7,148	2	395	-6,752
Aviation Gasoline Blend. Comp. (net)	56	—	2	—	—	58	—	—	58
<b>Total Input to Refineries</b>	<b>12,472</b>	<b>95,046</b>	<b>76,724</b>	<b>5,224</b>	<b>2,848</b>	<b>192,314</b>	<b>15,461</b>	<b>45,871</b>	<b>336,582</b>
<b>Atmospheric Crude Oil Distillation</b>									
Gross Input (daily average)	692	4,812	3,503	202	138	9,347	656	2,750	17,385
Operable Capacity (daily average)	747	4,955	3,671	256	137	9,765	683	2,838	18,601
Operable Utilization Rate (percent) <sup>3</sup>	92.6	97.1	95.4	78.9	101.1	95.7	96.1	96.9	93.5
<b>Downstream Processing</b>									
<b>Fresh Feed Input (daily average)</b>									
Catalytic Reforming	146	708	592	31	28	1,503	101	423	2,849
Catalytic Cracking	181	1,360	1,071	2	34	2,650	181	763	4,983
Catalytic Hydrocracking	50	584	483	14	14	1,146	23	528	2,009
Delayed and Fluid Coking	27	813	533	25	—	1,397	65	474	2,414
<b>Crude Oil Qualities</b>									
Sulfur Content, Weighted Average (percent)	0.56	1.61	1.37	1.71	0.69	1.43	1.48	1.37	1.39
API Gravity, Weighted Average (degrees)	39.38	31.90	31.46	29.56	39.25	32.38	32.25	28.53	32.10
<b>Operable Capacity (daily average)</b>	<b>747</b>	<b>4,955</b>	<b>3,671</b>	<b>256</b>	<b>137</b>	<b>9,765</b>	<b>683</b>	<b>2,838</b>	<b>18,601</b>
Operating	747	4,955	3,671	256	137	9,765	673	2,838	18,526
Idle	—	—	—	—	—	—	10	—	75
<b>Alaskan Crude Oil Receipts</b>	—	—	—	—	—	—	—	<b>13,314</b>	<b>13,314</b>

— = No Data Reported.

NA = Not Available.

<sup>1</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

<sup>2</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

<sup>3</sup> Represents gross input divided by operable calendar day capacity.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

**Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, September 2018**  
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids .....	696	14	710	2,256	265	442	2,963
Natural Gas Liquids .....	456	14	470	1,299	131	257	1,687
Ethane .....	-	-	-	-	-	-	-
Propane .....	552	22	574	1,390	208	371	1,969
Normal Butane .....	-101	7	-94	-48	-55	-68	-171
Isobutane .....	5	-15	-10	-43	-22	-46	-111
Natural Gasoline .....	-	-	-	-	-	-	-
Refinery Olefins .....	240	-	240	957	134	185	1,276
Ethylene .....	3	-	3	-	-	-	-
Propylene .....	273	-	273	886	134	199	1,219
Butylene .....	-56	-	-56	71	-	-3	68
Isobutylene .....	20	-	20	-	-	-11	-11
Finished Motor Gasoline .....	702	1,164	1,866	7,117	1,323	2,020	10,460
Reformulated .....	702	-	702	-	-	-	-
Reformulated Blended with Fuel Ethanol .....	702	-	702	-	-	-	-
Reformulated Other .....	-	-	-	-	-	-	-
Conventional .....	-	1,164	1,164	7,117	1,323	2,020	10,460
Conventional Blended with Fuel Ethanol .....	-	1,079	1,079	1,663	1,048	979	3,690
Ed55 and Lower .....	-	1,079	1,079	1,663	1,048	979	3,690
Greater than Ed55 .....	-	-	-	-	-	-	-
Conventional Other .....	-	85	85	5,454	275	1,041	6,770
Finished Aviation Gasoline .....	-	-	-	-	19	-	19
Kerosene-Type Jet Fuel .....	2,535	-	2,535	5,914	840	994	7,748
Kerosene .....	222	-	222	158	-	10	168
Distillate Fuel Oil .....	8,130	808	8,938	18,403	3,514	9,787	31,704
15 ppm sulfur and under .....	7,680	676	8,356	18,564	3,482	9,829	31,875
Greater than 15 ppm to 500 ppm sulfur .....	11	97	108	-48	-	-38	-86
Greater than 500 ppm sulfur .....	439	35	474	-113	32	-4	-85
Residual Fuel Oil .....	1,958	-	1,958	1,190	181	121	1,492
Less than 0.31 percent sulfur .....	685	-	685	42	-	-	42
0.31 to 1.00 percent sulfur .....	555	-	555	129	52	-	181
Greater than 1.00 percent sulfur .....	718	-	718	1,019	129	121	1,269
Petrochemical Feedstocks .....	71	-	71	971	-	34	1,005
Naphtha for Petro. Feed. Use .....	71	-	71	686	-	-	686
Other Oils for Petro. Feed. Use .....	-	-	-	285	-	34	319
Special Naphthas .....	-	22	22	41	-	14	55
Lubricants .....	158	148	306	-	-	273	273
Waxes .....	-	18	18	-	-	29	29
Petroleum Coke .....	933	19	952	3,424	613	957	4,994
Marketable .....	357	-	357	2,393	458	732	3,583
Catalyst .....	576	19	595	1,031	155	225	1,411
Asphalt and Road Oil .....	507	638	1,145	3,469	1,231	363	5,063
Still Gas .....	1,211	50	1,261	2,703	531	1,030	4,264
Miscellaneous Products .....	79	25	104	263	79	52	394
<b>Total .....</b>	<b>17,202</b>	<b>2,906</b>	<b>20,108</b>	<b>45,909</b>	<b>8,596</b>	<b>16,126</b>	<b>70,631</b>
Processing Gain(-) or Loss(+) <sup>1</sup> .....	-1,333	50	-1,283	-4,225	-1,028	-1,267	-6,520

See footnotes at end of table.

**Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, September 2018**  
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids .....	854	6,955	5,501	-8	47	13,349	264	2,224	19,510
Natural Gas Liquids .....	388	3,465	2,340	-13	47	6,227	212	1,943	10,539
Ethane .....	2	129	18	-	-	149	-	-	149
Propane .....	313	2,320	2,178	3	42	4,856	266	1,218	8,883
Normal Butane .....	143	1,406	24	-16	14	1,571	7	490	1,803
Isobutane .....	-70	-390	120	-	-9	-349	-61	235	-296
Natural Gasoline .....	-	-	-	-	-	-	-	-	-
Refinery Olefins .....	466	3,490	3,161	5	-	7,122	52	281	8,971
Ethylene .....	-	-	-	-	-	-	-	-	3
Propylene .....	465	3,477	3,120	5	-	7,067	11	251	8,821
Butylene .....	1	37	41	-	-	79	41	30	162
Isobutylene .....	-	-24	-	-	-	-24	-	-	-15
Finished Motor Gasoline .....	2,920	10,973	12,189	287	792	27,161	4,909	3,251	47,647
Reformulated .....	-	-	-	-	-	-	-	565	1,267
Reformulated Blended with Fuel Ethanol .....	-	-	-	-	-	-	-	565	1,267
Reformulated Other .....	-	-	-	-	-	-	-	-	-
Conventional .....	2,920	10,973	12,189	287	792	27,161	4,909	2,686	46,380
Conventional Blended with Fuel Ethanol .....	1,894	465	1,733	252	495	4,839	2,875	296	12,779
Ed55 and Lower .....	1,888	465	1,733	252	495	4,833	2,875	296	12,773
Greater than Ed55 .....	6	-	-	-	-	6	-	-	6
Conventional Other .....	1,026	10,508	10,456	35	297	22,322	2,034	2,390	33,601
Finished Aviation Gasoline .....	86	112	125	-	-	323	8	55	405
Kerosene-Type Jet Fuel .....	1,400	15,308	12,333	137	-	29,178	1,029	15,134	55,624
Kerosene .....	-1	150	121	12	-	282	-	0	672
Distillate Fuel Oil .....	6,361	46,017	34,772	2,314	1,730	91,194	6,740	17,540	156,116
15 ppm sulfur and under .....	6,373	43,709	29,130	2,171	1,730	83,113	6,673	16,655	146,672
Greater than 15 ppm to 500 ppm sulfur .....	-12	256	2,523	31	-	2,798	46	354	3,220
Greater than 500 ppm sulfur .....	-	2,052	3,119	112	-	5,283	21	531	6,224
Residual Fuel Oil .....	386	1,569	3,725	-35	89	5,734	393	3,240	12,817
Less than 0.31 percent sulfur .....	228	32	992	-	-	1,252	206	-	2,185
0.31 to 1.00 percent sulfur .....	-	118	338	-35	17	438	36	637	1,847
Greater than 1.00 percent sulfur .....	158	1,419	2,395	-	72	4,044	151	2,603	8,785
Petrochemical Feedstocks .....	145	5,915	3,235	-	-	9,295	-	1	10,372
Naphtha for Petro. Feed. Use .....	134	4,293	2,048	-	-	6,475	-	1	7,233
Other Oils for Petro. Feed. Use .....	11	1,622	1,187	-	-	2,820	-	-	3,139
Special Naphthas .....	62	624	-	224	-	910	-	27	1,014
Lubricants .....	26	1,737	1,548	788	-	4,099	-	582	5,260
Waxes .....	-	42	8	24	-	74	-	-	121
Petroleum Coke .....	438	8,435	5,861	138	40	14,912	796	4,875	26,529
Marketable .....	190	6,421	4,446	134	-	11,191	540	3,712	19,383
Catalyst .....	248	2,014	1,415	4	40	3,721	256	1,163	7,146
Asphalt and Road Oil .....	154	500	375	901	78	2,008	1,285	869	10,370
Still Gas .....	779	6,113	4,241	184	75	11,392	710	3,842	21,469
Miscellaneous Products .....	122	1,069	557	17	44	1,809	130	436	2,873
<b>Total .....</b>	<b>13,732</b>	<b>105,519</b>	<b>84,591</b>	<b>4,983</b>	<b>2,895</b>	<b>211,720</b>	<b>16,264</b>	<b>52,076</b>	<b>370,799</b>
Processing Gain(-) or Loss(+) <sup>1</sup> .....	-1,260	-10,473	-7,867	241	-47	-19,406	-803	-6,205	-34,217

- = No Data Reported.

<sup>1</sup> Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."



**Table 32. Blender Net Inputs of Petroleum Products by PAD District, September 2018**  
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
<b>Hydrocarbon Gas Liquids</b> .....	1,072	—	1,072	109	77	370	556
Natural Gas Liquids .....	1,072	—	1,072	109	77	370	556
Normal Butane .....	918	—	918	107	68	294	469
Isobutane .....	—	—	—	—	—	—	—
Natural Gasoline .....	154	—	154	2	9	76	87
<b>Other Liquids</b> .....	85,573	6,061	91,634	44,020	8,947	13,503	66,470
Oxygenates/Renewables .....	9,367	633	10,000	4,804	1,157	1,516	7,477
Oxygenates (excluding Fuel Ethanol) .....	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup> .....	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) .....	9,367	633	10,000	4,804	1,157	1,516	7,477
Fuel Ethanol .....	9,167	603	9,770	4,611	973	1,463	7,047
Renewable Diesel Fuel <sup>2</sup> .....	200	30	230	193	184	53	430
Other Renewable Fuels .....	—	—	—	—	—	—	—
Unfinished Oils (net) .....	—	—	—	12	—	—	12
Naphthas and Lighter .....	—	—	—	—	—	—	—
Kerosene and Light Gas Oils .....	—	—	—	—	—	—	—
Heavy Gas Oils .....	—	—	—	—	—	—	—
Residuum .....	—	—	—	12	—	—	12
Motor Gasoline Blend.Comp. (MGBC)(net) .....	76,206	5,428	81,634	39,204	7,790	11,987	58,981
Reformulated - RBOB .....	19,900	138	20,038	6,963	1,332	1,188	9,483
Conventional .....	56,306	5,290	61,596	32,241	6,458	10,799	49,498
CBOB .....	47,083	5,290	52,373	32,224	6,458	10,802	49,484
GTAB .....	3,949	—	3,949	—	—	—	—
Other .....	5,274	—	5,274	17	—	-3	14
Aviation Gasoline Blend. Comp. (net) .....	—	—	—	—	—	—	—
<b>Total Input</b> .....	86,645	6,061	92,706	44,129	9,024	13,873	67,026

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
<b>Hydrocarbon Gas Liquids</b> .....	14	879	84	48	—	1,025	73	43	2,769
Natural Gas Liquids .....	14	879	84	48	—	1,025	73	43	2,769
Normal Butane .....	5	373	84	48	—	510	48	43	1,988
Isobutane .....	—	—	—	—	—	—	6	—	6
Natural Gasoline .....	9	506	—	—	—	515	19	—	775
<b>Other Liquids</b> .....	17,203	10,698	2,851	8,688	1,099	40,539	4,622	45,251	248,516
Oxygenates/Renewables .....	1,827	831	284	980	124	4,046	632	5,007	27,162
Oxygenates (excluding Fuel Ethanol) .....	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup> .....	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) .....	1,827	831	284	980	124	4,046	632	5,007	27,162
Fuel Ethanol .....	1,768	767	284	945	112	3,876	622	4,697	26,012
Renewable Diesel Fuel <sup>2</sup> .....	59	64	—	35	12	170	10	306	1,146
Other Renewable Fuels .....	—	—	—	—	—	—	—	4	4
Unfinished Oils (net) .....	—	-112	91	—	—	-21	—	—	-9
Naphthas and Lighter .....	—	—	—	—	—	—	—	—	—
Kerosene and Light Gas Oils .....	—	-112	—	—	—	-112	—	—	-112
Heavy Gas Oils .....	—	—	91	—	—	91	—	—	91
Residuum .....	—	—	—	—	—	—	—	—	12
Motor Gasoline Blend.Comp. (MGBC)(net) .....	15,376	9,979	2,476	7,708	975	36,514	3,990	40,244	221,363
Reformulated - RBOB .....	6,727	4,486	—	—	—	11,213	—	29,899	70,633
Conventional .....	8,649	5,493	2,476	7,708	975	25,301	3,990	10,345	150,730
CBOB .....	8,649	-1,348	1,252	7,703	971	17,227	3,988	10,315	133,387
GTAB .....	—	—	—	—	—	—	—	—	3,949
Other .....	—	6,841	1,224	5	4	8,074	2	30	13,394
Aviation Gasoline Blend. Comp. (net) .....	—	—	—	—	—	—	—	—	—
<b>Total Input</b> .....	17,217	11,577	2,935	8,736	1,099	41,564	4,695	45,294	251,285

— = No Data Reported.

<sup>1</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

<sup>2</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal and Blender Report."

**Table 33. Blender Net Production of Petroleum Products by PAD District, September 2018**  
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Finished Motor Gasoline .....	86,441	6,030	92,471	43,921	8,843	13,823	66,587
Reformulated .....	37,550	151	37,701	7,962	1,481	1,321	10,764
Reformulated Blended with Fuel Ethanol .....	37,550	151	37,701	7,962	1,481	1,321	10,764
Reformulated Other .....	-	-	-	-	-	-	-
Conventional .....	48,891	5,879	54,770	35,959	7,362	12,502	55,823
Conventional Blended with Fuel Ethanol .....	53,050	5,894	58,944	37,582	8,113	12,768	58,463
Ed55 and Lower .....	53,005	5,894	58,899	37,566	8,083	12,691	58,340
Greater than Ed55 .....	45	-	45	16	30	77	123
Conventional Other .....	-4,159	-15	-4,174	-1,623	-751	-266	-2,640
Finished Aviation Gasoline .....	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel .....	-	10	10	-9	-2	-1	-12
Kerosene .....	-7	-	-7	-	-	-	-
Distillate Fuel Oil .....	204	20	224	200	181	48	429
15 ppm sulfur and under .....	195	20	215	200	181	48	429
Greater than 15 ppm to 500 ppm sulfur .....	55	-	55	-	-	86	86
Greater than 500 ppm sulfur .....	-46	-	-46	-	-	-86	-86
Residual Fuel Oil .....	-1	-	-1	-	-	-	-
Less than 0.31 percent sulfur .....	-7	-	-7	-	-	-	-
0.31 to 1.00 percent sulfur .....	1	-	1	-	-	-	-
Greater than 1.00 percent sulfur .....	5	-	5	-	-	-	-
Special Naphthas .....	-	-	-	-	-	-	-
Lubricants .....	-	-	-	-	-	-	-
Asphalt and Road Oil .....	-	-	-	12	2	1	15
Miscellaneous Products .....	-	-	-	-	-	-	-
<b>Total Production</b> .....	<b>86,637</b>	<b>6,060</b>	<b>92,697</b>	<b>44,124</b>	<b>9,024</b>	<b>13,871</b>	<b>67,019</b>
Processing Gain(-) or Loss(+) <sup>1</sup> .....	8	1	9	5	0	2	7

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Finished Motor Gasoline .....	17,157	11,625	2,843	8,701	1,087	41,413	4,686	44,989	250,146
Reformulated .....	7,470	6,365	-	-	-	13,835	-	33,276	95,576
Reformulated Blended with Fuel Ethanol .....	7,470	6,365	-	-	-	13,835	-	33,276	95,576
Reformulated Other .....	-	-	-	-	-	-	-	-	-
Conventional .....	9,687	5,260	2,843	8,701	1,087	27,578	4,686	11,713	154,570
Conventional Blended with Fuel Ethanol .....	9,963	1,144	2,818	9,376	1,123	24,424	6,133	13,467	161,431
Ed55 and Lower .....	9,951	1,144	2,818	9,363	1,123	24,399	6,119	13,463	161,220
Greater than Ed55 .....	12	-	-	13	-	25	14	4	211
Conventional Other .....	-276	4,116	25	-675	-36	3,154	-1,447	-1,754	-6,861
Finished Aviation Gasoline .....	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel .....	-	11	8	-	-	19	58	-12	63
Kerosene .....	-	-	2	-	-	2	-	11	6
Distillate Fuel Oil .....	60	-237	-10	35	12	-140	-49	308	772
15 ppm sulfur and under .....	60	52	-10	35	12	149	-49	302	1,046
Greater than 15 ppm to 500 ppm sulfur .....	-	-	-	-	-	-	-	-	141
Greater than 500 ppm sulfur .....	-	-289	-	-	-	-289	-	6	-415
Residual Fuel Oil .....	-	178	-117	-	-	61	-	2	62
Less than 0.31 percent sulfur .....	-	-3	-	-	-	-3	-	2	-8
0.31 to 1.00 percent sulfur .....	-	3	91	-	-	94	-	-	95
Greater than 1.00 percent sulfur .....	-	178	-208	-	-	-30	-	-	-25
Special Naphthas .....	-	-	-	-	-	-	-	-	-
Lubricants .....	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil .....	-	-	208	-	-	208	-	-	223
Miscellaneous Products .....	-	-	-	-	-	-	-	-	-
<b>Total Production</b> .....	<b>17,217</b>	<b>11,577</b>	<b>2,934</b>	<b>8,736</b>	<b>1,099</b>	<b>41,563</b>	<b>4,695</b>	<b>45,298</b>	<b>251,272</b>
Processing Gain(-) or Loss(+) <sup>1</sup> .....	0	0	1	0	0	1	0	-4	13

- = No Data Reported.

<sup>1</sup> Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal and Blender Report."

**Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2018**  
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
<b>Crude Oil</b>	<b>9,869</b>	<b>688</b>	<b>10,557</b>	<b>9,411</b>	<b>2,436</b>	<b>1,784</b>	<b>13,631</b>
<b>Petroleum Products</b>	<b>13,639</b>	<b>2,040</b>	<b>15,679</b>	<b>31,505</b>	<b>8,553</b>	<b>12,701</b>	<b>52,759</b>
Hydrocarbon Gas Liquids	735	43	778	2,848	695	1,797	5,340
Natural Gas Liquids	463	43	506	2,509	662	1,732	4,903
Ethane	—	—	—	—	—	—	—
Propane	97	2	99	530	44	1,272	1,846
Normal Butane	262	33	295	1,588	543	217	2,348
Isobutane	104	8	112	278	75	87	440
Natural Gasoline	—	—	—	113	—	156	269
Refinery Olefins	272	0	272	339	33	65	437
Ethylene	—	—	—	—	—	—	—
Propylene	106	0	106	307	32	7	346
Butylene	107	0	107	32	1	6	39
Isobutylene	59	0	59	0	0	52	52
Oxygenates/Renewable Fuels/Other Hydrocarbons	63	87	150	69	63	30	162
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup>	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	63	87	150	44	63	30	137
Fuel Ethanol	63	80	143	26	46	27	99
Renewable Diesel Fuel <sup>2</sup>	—	7	7	18	17	3	38
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	25	—	—	25
Unfinished Oils	4,779	511	5,290	8,902	708	4,392	14,002
Naphthas and Lighter	952	345	1,297	2,236	186	1,088	3,510
Kerosene and Light Gas Oils	573	—	573	1,631	241	613	2,485
Heavy Gas Oils	2,467	162	2,629	3,422	277	1,998	5,697
Residuum	787	4	791	1,613	4	693	2,310
Motor Gasoline Blending Components (MGBC)	4,257	165	4,422	8,618	2,249	3,187	14,054
Reformulated - RBOB	1,372	—	1,372	986	82	—	1,068
Conventional	2,885	165	3,050	7,632	2,167	3,187	12,986
CBOB	475	136	611	2,972	1,153	1,963	6,088
GTAB	—	—	—	—	—	—	—
Other	2,410	29	2,439	4,660	1,014	1,224	6,898
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	33	33	1,163	66	314	1,543
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	33	33	1,163	66	314	1,543
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	33	33	1,163	66	314	1,543
Finished Aviation Gasoline	—	—	—	—	90	—	90
Kerosene-Type Jet Fuel	587	—	587	1,392	222	245	1,859
Kerosene	172	2	174	147	—	11	158
Distillate Fuel Oil	1,834	263	2,097	4,045	1,269	1,572	6,886
15 ppm sulfur and under	1,440	111	1,551	3,770	1,064	1,493	6,327
Greater than 15 ppm to 500 ppm sulfur	56	128	184	—	65	43	108
Greater than 500 ppm sulfur	338	24	362	275	140	36	451
Residual Fuel Oil	550	12	562	848	184	59	1,091
Less than 0.31 percent sulfur	190	10	200	67	—	—	67
0.31 to 1.00 percent sulfur	70	2	72	105	20	—	125
Greater than 1.00 percent sulfur	290	—	290	676	164	59	899
Petrochemical Feedstocks	102	—	102	577	—	—	577
Naphtha for Petro. Feed. Use	102	—	102	421	—	—	421
Other Oils for Petro. Feed. Use	—	—	—	156	—	—	156
Special Naphthas	—	23	23	50	—	18	68
Lubricants	427	230	657	—	—	376	376
Waxes	—	373	373	—	—	57	57
Petroleum Coke	—	—	—	290	1,065	191	1,546
Marketable	—	—	—	290	1,065	191	1,546
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	118	283	401	2,497	1,928	446	4,871
Miscellaneous Products	15	15	30	59	14	6	79
<b>Total Stocks, All Oils</b>	<b>23,508</b>	<b>2,728</b>	<b>26,236</b>	<b>40,916</b>	<b>10,989</b>	<b>14,485</b>	<b>66,390</b>

See footnotes at end of table.

**Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2018**  
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
<b>Crude Oil</b> .....	<b>1,882</b>	<b>28,276</b>	<b>17,743</b>	<b>1,239</b>	<b>410</b>	<b>49,550</b>	<b>2,516</b>	<b>23,312</b>	<b>99,566</b>
<b>Petroleum Products</b> .....	<b>11,452</b>	<b>60,660</b>	<b>51,342</b>	<b>4,593</b>	<b>1,840</b>	<b>129,887</b>	<b>10,623</b>	<b>51,442</b>	<b>260,390</b>
Hydrocarbon Gas Liquids .....	3,757	2,210	6,000	9	167	12,143	409	1,772	20,442
Natural Gas Liquids .....	2,739	1,716	4,097	9	167	8,728	383	1,715	16,235
Ethane .....	270	—	—	—	—	270	—	—	270
Propane .....	415	318	187	2	5	927	62	107	3,041
Normal Butane .....	1,634	1,164	2,663	4	144	5,609	244	1,093	9,589
Isobutane .....	286	212	948	3	14	1,463	58	512	2,585
Natural Gasoline .....	134	22	299	—	4	459	19	3	750
Refinery Olefins .....	1,018	494	1,903	0	0	3,415	26	57	4,207
Ethylene .....	0	—	—	—	—	0	—	—	0
Propylene .....	1,008	44	363	0	0	1,415	1	12	1,880
Butylene .....	10	450	1,540	0	0	2,000	25	45	2,216
Isobutylene .....	0	0	0	0	0	0	0	0	111
Oxygenates/Renewable Fuels/Other Hydrocarbons ...	38	76	147	100	12	373	182	201	1,068
Oxygenates (excluding Fuel Ethanol) .....	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup> .....	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) .....	38	76	147	100	12	373	182	201	1,043
Fuel Ethanol .....	33	47	79	37	11	207	117	31	597
Renewable Diesel Fuel <sup>2</sup> .....	5	29	68	63	1	166	65	170	446
Other Renewable Fuels .....	—	—	—	—	—	—	—	—	—
Other Hydrocarbons .....	—	—	—	—	—	—	—	—	25
Unfinished Oils .....	2,916	21,240	15,870	1,327	763	42,116	3,309	19,209	83,926
Naphthas and Lighter .....	1,150	6,577	1,912	226	290	10,155	786	2,746	18,494
Kerosene and Light Gas Oils .....	691	3,452	2,482	261	183	7,069	601	3,524	14,252
Heavy Gas Oils .....	458	9,318	8,728	750	290	19,544	1,204	9,860	38,934
Residuum .....	617	1,893	2,748	90	—	5,348	718	3,079	12,246
Motor Gasoline Blending Components (MGBC) .....	2,458	13,097	12,910	272	305	29,042	2,893	13,701	64,112
Reformulated - RBOB .....	169	1,083	160	—	—	1,412	—	5,313	9,165
Conventional .....	2,289	12,014	12,750	272	305	27,630	2,893	8,388	54,947
CBOB .....	1,096	3,911	6,718	215	17	11,957	1,414	2,229	22,299
GTAB .....	—	—	—	—	—	—	—	—	—
Other .....	1,193	8,103	6,032	57	288	15,673	1,479	6,159	32,648
Aviation Gasoline Blending Components .....	17	—	13	—	—	30	—	—	30
Finished Motor Gasoline .....	430	1,440	1,505	23	102	3,500	731	800	6,607
Reformulated .....	—	—	—	—	—	—	—	20	20
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	20	20
Reformulated Other .....	—	—	—	—	—	—	—	—	—
Conventional .....	430	1,440	1,505	23	102	3,500	731	780	6,587
Conventional Blended with Fuel Ethanol .....	—	—	—	—	—	—	53	—	53
Ed55 and Lower .....	—	—	—	—	—	—	53	—	53
Greater than Ed55 .....	—	—	—	—	—	—	—	—	—
Conventional Other .....	430	1,440	1,505	23	102	3,500	678	780	6,534
Finished Aviation Gasoline .....	32	183	176	—	—	391	10	140	631
Kerosene-Type Jet Fuel .....	339	3,434	2,338	74	—	6,185	301	4,287	13,219
Kerosene .....	20	7	66	7	—	100	1	1	434
Distillate Fuel Oil .....	754	7,132	6,113	457	165	14,621	1,590	5,561	30,755
15 ppm sulfur and under .....	737	6,191	4,476	287	165	11,856	1,413	4,718	25,865
Greater than 15 ppm to 500 ppm sulfur .....	17	149	787	49	—	1,002	103	235	1,632
Greater than 500 ppm sulfur .....	—	792	850	121	—	1,763	74	608	3,258
Residual Fuel Oil .....	85	2,066	1,539	47	59	3,796	284	2,703	8,436
Less than 0.31 percent sulfur .....	7	—	176	—	—	183	28	—	478
0.31 to 1.00 percent sulfur .....	—	153	58	47	6	264	34	512	1,007
Greater than 1.00 percent sulfur .....	78	1,913	1,305	—	53	3,349	222	2,191	6,951
Petrochemical Feedstocks .....	114	1,788	862	18	—	2,782	—	3	3,464
Naphtha for Petro. Feed. Use .....	37	1,123	674	18	—	1,852	—	3	2,378
Other Oils for Petro. Feed. Use .....	77	665	188	—	—	930	—	—	1,086
Special Naphthas .....	76	627	—	141	—	844	—	40	975
Lubricants .....	58	2,628	2,261	925	—	5,872	—	942	7,847
Waxes .....	—	79	111	63	—	253	—	—	683
Petroleum Coke .....	42	4,113	921	—	—	5,076	114	1,494	8,230
Marketable .....	42	4,113	921	—	—	5,076	114	1,494	8,230
Catalyst .....	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil .....	293	264	419	1,129	241	2,346	777	485	8,880
Miscellaneous Products .....	23	276	91	1	26	417	22	103	651
<b>Total Stocks, All Oils</b> .....	<b>13,334</b>	<b>88,936</b>	<b>69,085</b>	<b>5,832</b>	<b>2,250</b>	<b>179,437</b>	<b>13,139</b>	<b>74,754</b>	<b>359,956</b>

<sup>1</sup> = No Data Reported.

<sup>1</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

<sup>2</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 35. Percent Yield of Petroleum Products by PAD and Refining Districts, September 2018

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids .....	2.4	0.5	2.3	3.1	2.1	1.8	2.7
Finished Motor Gasoline <sup>1</sup> .....	46.9	36.7	46.0	52.0	51.3	48.1	51.1
Finished Aviation Gasoline <sup>2</sup> .....	—	—	—	—	0.2	—	0.0
Kerosene-Type Jet Fuel .....	8.9	—	8.1	8.2	6.6	4.0	7.1
Kerosene .....	0.8	—	0.7	0.2	—	0.0	0.2
Distillate Fuel Oil <sup>3</sup> .....	28.4	28.1	28.4	25.5	27.2	39.5	28.9
Residual Fuel Oil .....	6.9	—	6.2	1.7	1.4	0.5	1.4
Naphtha for Petro. Feed. Use .....	0.3	—	0.2	1.0	—	—	0.6
Other Oils for Petro. Feed. Use .....	—	—	—	0.4	—	0.1	0.3
Special Naphthas .....	—	0.8	0.1	0.1	—	0.1	0.1
Lubricants .....	0.6	5.3	1.0	—	—	1.1	0.3
Waxes .....	—	0.6	0.1	—	—	0.1	0.0
Petroleum Coke .....	3.3	0.7	3.0	4.8	4.8	3.9	4.6
Asphalt and Road Oil .....	1.8	22.8	3.7	4.8	9.7	1.5	4.6
Still Gas .....	4.2	1.8	4.0	3.8	4.2	4.2	3.9
Miscellaneous Products .....	0.3	0.9	0.3	0.4	0.6	0.2	0.4
Processing Gain(-) or Loss(+) <sup>4</sup> .....	-4.6	1.8	-4.1	-5.9	-8.1	-5.1	-6.0

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids .....	4.2	4.8	4.9	-0.1	1.2	4.6	1.3	2.7	3.7
Finished Motor Gasoline <sup>1</sup> .....	53.9	41.6	43.1	22.6	48.3	42.7	46.6	47.7	45.6
Finished Aviation Gasoline <sup>2</sup> .....	0.2	0.1	0.1	—	—	0.1	0.0	0.1	0.1
Kerosene-Type Jet Fuel .....	6.9	10.6	10.9	2.2	—	10.1	5.2	18.6	10.5
Kerosene .....	0.0	0.1	0.1	0.2	—	0.1	—	0.0	0.1
Distillate Fuel Oil <sup>3</sup> .....	30.8	32.0	30.6	36.1	43.5	31.6	34.1	21.4	29.4
Residual Fuel Oil .....	1.9	1.1	3.3	-0.6	2.3	2.0	2.0	4.0	2.4
Naphtha for Petro. Feed. Use .....	0.7	3.0	1.8	—	—	2.3	—	0.0	1.4
Other Oils for Petro. Feed. Use .....	0.1	1.1	1.1	—	—	1.0	—	—	0.6
Special Naphthas .....	0.3	0.4	—	3.5	—	0.3	—	0.0	0.2
Lubricants .....	0.1	1.2	1.4	12.4	—	1.4	—	0.7	1.0
Waxes .....	—	0.0	0.0	0.4	—	0.0	—	—	0.0
Petroleum Coke .....	2.1	5.9	5.2	2.2	1.0	5.2	4.1	6.0	5.0
Asphalt and Road Oil .....	0.8	0.4	0.3	14.2	2.0	0.7	6.5	1.1	2.0
Still Gas .....	3.8	4.3	3.7	2.9	1.9	4.0	3.6	4.7	4.1
Miscellaneous Products .....	0.6	0.7	0.5	0.0	1.0	0.6	0.7	0.5	0.5
Processing Gain(-) or Loss(+) <sup>4</sup> .....	-6.2	-7.3	-6.9	3.8	-1.2	-6.7	-4.1	-7.6	-6.5

— = No Data Reported.

<sup>1</sup> Based on net production of finished motor gasoline minus input of natural gas plant liquids, fuel ethanol, oxygenates, and net input of motor gasoline blending components.

<sup>2</sup> Based on finished aviation gasoline net production minus net input of aviation gasoline blending components.

<sup>3</sup> Based on distillate fuel oil net production minus input of biodiesel, "other" renewable diesel fuels, and "other" renewable fuels.

<sup>4</sup> Represents the arithmetic difference between input and production.

Note: Percent yield is calculated as net production (or adjusted net production) divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Calculated from data on Tables 30 and 31.

**Table 36. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, September 2018**  
(Thousand Barrels)

PAD District and State of Entry	Residual Fuel Oil			
	Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>PAD District 1</b> .....	—	—	2,099	2,099
Connecticut .....	—	—	—	—
Delaware .....	—	—	—	—
Florida .....	—	—	315	315
Georgia .....	—	—	317	317
Maine .....	—	—	—	—
Maryland .....	—	—	—	—
Massachusetts .....	—	—	—	—
New Hampshire .....	—	—	—	—
New Jersey .....	—	—	652	652
New York .....	—	—	285	285
North Carolina .....	—	—	—	—
Pennsylvania .....	—	—	296	296
Rhode Island .....	—	—	—	—
South Carolina .....	—	—	233	233
Vermont .....	—	—	1	1
Virginia .....	—	—	—	—
West Virginia .....	—	—	—	—
<b>PAD District 2</b> .....	—	17	59	76
Illinois .....	—	—	—	—
Indiana .....	—	—	—	—
Michigan .....	—	—	59	59
Minnesota .....	—	16	—	16
North Dakota .....	—	1	—	1
Ohio .....	—	—	—	—
Wisconsin .....	—	—	—	—
<b>PAD District 3</b> .....	671	280	2,022	2,973
Alabama .....	—	—	—	—
Louisiana .....	—	280	—	280
Mississippi .....	—	—	—	—
New Mexico .....	—	—	—	—
Texas .....	671	—	2,022	2,693
<b>PAD District 4</b> .....	—	—	—	—
Idaho .....	—	—	—	—
Montana .....	—	—	—	—
<b>PAD District 5</b> .....	—	157	1,490	1,647
Alaska .....	—	—	—	—
California .....	—	—	1,414	1,414
Hawaii .....	—	—	—	—
Oregon .....	—	—	—	—
Washington .....	—	157	76	233
<b>U.S. Total</b> .....	671	454	5,670	6,795

— = No Data Reported.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."



**Table 37. Imports of Crude Oil and Petroleum Products by PAD District, September 2018**  
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1,2</sup></b> .....	<b>25,290</b>	<b>69,297</b>	<b>85,490</b>	<b>9,278</b>	<b>38,308</b>	<b>227,663</b>	<b>7,589</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>738</b>	<b>2,528</b>	<b>154</b>	<b>272</b>	<b>1,457</b>	<b>5,149</b>	<b>172</b>
Natural Gas Liquids .....	630	2,165	—	272	1,457	4,524	151
Ethane .....	—	—	—	—	—	—	—
Propane .....	494	1,594	—	247	964	3,299	110
Normal Butane .....	26	456	—	15	432	929	31
Isobutane .....	110	108	—	10	61	289	10
Natural Gasoline .....	—	7	—	—	—	7	0
Refinery Olefins .....	108	363	154	—	—	625	21
Ethylene .....	—	—	—	—	—	—	—
Propylene .....	108	299	—	—	—	407	14
Butylene .....	—	64	154	—	—	218	7
Isobutylene .....	—	—	—	—	—	—	—
<b>Other Liquids</b> .....	<b>18,085</b>	<b>2,814</b>	<b>14,954</b>	<b>79</b>	<b>3,728</b>	<b>39,660</b>	<b>1,322</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	159	111	119	5	361	755	25
Hydrogen .....	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol) .....	—	—	115	—	—	115	4
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	44	—	—	44	1
Other Oxygenates <sup>3</sup> .....	—	—	71	—	—	71	2
Renewable Fuels (including Fuel Ethanol) .....	159	111	—	5	361	636	21
Fuel Ethanol .....	—	—	—	—	35	35	1
Biomass-Based Diesel Fuel .....	159	111	—	5	2	277	9
Other Renewable Diesel Fuel .....	—	—	—	—	324	324	11
Other Renewable Fuels .....	—	—	—	—	—	—	—
Other Hydrocarbons .....	—	—	4	—	—	4	0
Unfinished Oils <sup>1</sup> .....	1,825	2,247	13,494	—	3,367	20,933	698
Naphthas and Lighter .....	328	—	—	—	—	328	11
Kerosene and Lighter Gas Oils .....	—	—	—	—	—	—	—
Heavy Gas Oils .....	1,497	2,247	10,097	—	2,301	16,142	538
Residuum .....	—	—	3,397	—	1,066	4,463	149
Motor Gasoline Blend.Comp. (MGBC) .....	16,101	456	1,341	74	—	17,972	599
Reformulated - RBOB .....	4,339	—	—	—	—	4,339	145
Conventional .....	11,762	456	1,341	74	—	13,633	454
CBOB .....	1,125	159	—	—	—	1,284	43
GTAB .....	3,564	—	41	—	—	3,605	120
Other .....	7,073	297	1,300	74	—	8,744	291
Aviation Gasoline Blend. Comp. ....	—	—	—	—	—	—	—
<b>Finished Petroleum Products</b> .....	<b>12,008</b>	<b>985</b>	<b>5,360</b>	<b>85</b>	<b>5,628</b>	<b>24,066</b>	<b>802</b>
Finished Motor Gasoline .....	2,750	—	—	—	68	2,818	94
Reformulated .....	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—	—
Reformulated Other .....	—	—	—	—	—	—	—
Conventional .....	2,750	—	—	—	68	2,818	94
Conventional Blended with Fuel Ethanol .....	—	—	—	—	—	—	—
Ed55 and Lower .....	—	—	—	—	—	—	—
Greater than Ed55 .....	—	—	—	—	—	—	—
Conventional Other .....	2,750	—	—	—	68	2,818	94
Finished Aviation Gasoline .....	1	3	—	—	—	4	0
Kerosene-Type Jet Fuel .....	2,149	—	—	25	3,261	5,435	181
Bonded Aircraft Fuel .....	143	—	—	—	1,160	1,303	43
Other .....	2,006	—	—	25	2,101	4,132	138
Kerosene .....	—	—	—	—	—	—	—
Distillate Fuel Oil .....	3,716	423	586	49	373	5,147	172
15 ppm sulfur and under .....	3,666	364	399	49	223	4,701	157
Bonded .....	—	—	—	—	—	—	—
Other .....	3,666	364	399	49	223	4,701	157
Greater than 15 ppm to 500 ppm sulfur .....	40	—	—	—	—	40	1
Bonded .....	—	—	—	—	—	—	—
Other .....	40	—	—	—	—	40	1
Greater than 500 ppm to 2000 ppm sulfur .....	10	43	187	—	150	390	13
Bonded .....	—	—	—	—	—	—	—
Other .....	10	43	187	—	150	390	13
Greater than 2000 ppm .....	—	16	—	—	—	16	1
Bonded .....	—	—	—	—	—	—	—
Other .....	—	16	—	—	—	16	1
Residual Fuel Oil .....	2,099	76	2,973	—	1,647	6,795	227
Less than 0.31 percent sulfur .....	—	—	671	—	—	671	22
0.31 to 1.00 percent sulfur .....	—	17	280	—	157	454	15
Greater than 1.00 percent sulfur .....	2,099	59	2,022	—	1,490	5,670	189
Petrochemical Feedstocks .....	—	160	317	—	35	512	17
Naphtha for Petro. Feed. Use .....	—	75	291	—	35	401	13
Other Oils for Petro. Feed. Use .....	—	85	26	—	—	111	4
Special Naphthas .....	2	19	333	—	—	354	12
Lubricants .....	132	119	1,083	—	4	1,338	45
Waxes .....	127	3	68	—	49	247	8
Petroleum Coke (Marketable) .....	2	26	—	—	23	51	2
Asphalt and Road Oil .....	1,030	156	—	10	168	1,364	45
Miscellaneous Products .....	—	—	—	1	—	1	0
<b>Total</b> .....	<b>56,121</b>	<b>75,624</b>	<b>105,958</b>	<b>9,714</b>	<b>49,121</b>	<b>296,538</b>	<b>9,885</b>

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 38. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January-September 2018**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1,2</sup></b>	<b>238,046</b>	<b>679,583</b>	<b>787,443</b>	<b>81,685</b>	<b>373,100</b>	<b>2,159,857</b>	<b>7,912</b>
<b>Hydrocarbon Gas Liquids</b>	<b>12,579</b>	<b>22,711</b>	<b>1,174</b>	<b>2,832</b>	<b>10,862</b>	<b>50,160</b>	<b>184</b>
Natural Gas Liquids	10,716	19,031	1	2,832	10,862	43,442	159
Ethane	—	—	—	—	—	—	—
Propane	9,587	15,616	1	2,492	7,886	35,582	130
Normal Butane	244	1,922	—	129	2,647	4,942	18
Isobutane	885	1,452	—	211	329	2,877	11
Natural Gasoline	—	41	—	—	—	41	0
Refinery Olefins	1,863	3,680	1,173	—	2	6,718	25
Ethylene	—	—	—	—	—	—	—
Propylene	1,863	3,198	—	—	2	5,063	19
Butylene	—	482	1,173	—	—	1,655	6
Isobutylene	—	—	—	—	—	—	—
<b>Other Liquids</b>	<b>178,317</b>	<b>7,034</b>	<b>152,352</b>	<b>726</b>	<b>34,365</b>	<b>372,794</b>	<b>1,366</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	1,422	488	2,984	19	3,895	8,808	32
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	2,565	—	—	2,565	9
Methyl Tertiary Butyl Ether (MTBE)	—	—	1,464	—	—	1,464	5
Other Oxygenates <sup>3</sup>	—	—	1,101	—	—	1,101	4
Renewable Fuels (including Fuel Ethanol)	1,422	462	367	19	3,895	6,165	23
Fuel Ethanol	—	—	—	—	339	339	1
Biomass-Based Diesel Fuel	1,422	462	367	19	223	2,493	9
Other Renewable Diesel Fuel	—	—	—	—	3,333	3,333	12
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	26	52	—	—	78	0
Unfinished Oils <sup>1</sup>	11,389	2,997	132,082	32	24,366	170,866	626
Naphthas and Lighter	2,545	321	1,567	—	386	4,819	18
Kerosene and Lighter Gas Oils	—	—	221	—	—	221	1
Heavy Gas Oils	7,959	2,676	99,734	32	17,053	127,454	467
Residuum	885	—	30,560	—	6,927	38,372	141
Motor Gasoline Blend Comp. (MGBC)	165,506	3,549	17,286	675	6,104	193,120	707
Reformulated - RBOB	50,540	64	—	—	951	51,555	189
Conventional	114,966	3,485	17,286	675	5,153	141,565	519
CBOB	9,544	1,569	—	—	1,079	12,192	45
GTAB	26,861	—	1,653	—	80	28,594	105
Other	78,561	1,916	15,633	675	3,994	100,779	369
Aviation Gasoline Blend Comp.	—	—	—	—	—	—	—
<b>Finished Petroleum Products</b>	<b>99,406</b>	<b>8,187</b>	<b>45,781</b>	<b>800</b>	<b>38,770</b>	<b>192,944</b>	<b>707</b>
Finished Motor Gasoline	10,863	—	597	—	1,848	13,308	49
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	10,863	—	597	—	1,848	13,308	49
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	10,863	—	597	—	1,848	13,308	49
Finished Aviation Gasoline	27	23	—	5	3	58	0
Kerosene-Type Jet Fuel	13,980	—	—	71	22,288	36,339	133
Bonded Aircraft Fuel	1,568	—	—	—	8,834	10,402	38
Other	12,412	—	—	71	13,454	25,937	95
Kerosene	614	2	—	—	—	616	2
Distillate Fuel Oil	38,735	1,711	1,956	458	3,192	46,052	169
15 ppm sulfur and under	33,600	1,142	1,034	458	3,006	39,240	144
Bonded	3	—	—	—	—	3	0
Other	33,597	1,142	1,034	458	3,006	39,237	144
Greater than 15 ppm to 500 ppm sulfur	946	—	—	—	—	946	3
Bonded	—	—	—	—	—	—	—
Other	946	—	—	—	—	946	3
Greater than 500 ppm to 2000 ppm sulfur	3,739	504	681	—	186	5,110	19
Bonded	—	—	—	—	—	—	—
Other	3,739	504	681	—	186	5,110	19
Greater than 2000 ppm	450	65	241	—	—	756	3
Bonded	—	—	—	—	—	—	—
Other	450	65	241	—	—	756	3
Residual Fuel Oil	25,671	890	24,023	—	9,514	60,098	220
Less than 0.31 percent sulfur	692	1	6,596	—	—	7,289	27
0.31 to 1.00 percent sulfur	884	293	1,273	—	1,560	4,010	15
Greater than 1.00 percent sulfur	24,095	596	16,154	—	7,954	48,799	179
Petrochemical Feedstocks	10	1,268	3,743	—	340	5,361	20
Naphtha for Petro. Feed. Use	9	635	3,542	—	340	4,526	17
Other Oils for Petro. Feed. Use	1	633	201	—	—	835	3
Special Naphthas	6	359	3,601	—	—	3,966	15
Lubricants	1,456	1,226	9,035	—	89	11,806	43
Waxes	693	43	331	—	299	1,366	5
Petroleum Coke (Marketable)	186	243	2,436	—	233	3,098	11
Asphalt and Road Oil	7,165	2,414	—	257	964	10,800	40
Miscellaneous Products	—	8	59	9	—	76	0
<b>Total</b>	<b>528,348</b>	<b>717,515</b>	<b>986,750</b>	<b>86,043</b>	<b>457,099</b>	<b>2,775,755</b>	<b>10,168</b>

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, September 2018**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>80,183</b>	—	—	<b>5,328</b>	—	<b>400</b>	<b>400</b>	—	<b>2,141</b>	<b>2,141</b>
Algeria .....	2,477	—	—	3,510	—	—	—	—	—	—
Angola .....	2,193	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	223	—	—	—	—	—	—
Ecuador .....	5,148	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	649	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—
Iraq .....	14,196	—	—	342	—	—	—	—	—	—
Kuwait .....	977	—	—	109	—	—	—	—	—	—
Libya .....	1,827	—	—	—	—	—	—	—	—	—
Nigeria .....	2,822	—	—	—	—	—	—	—	553	553
Qatar .....	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	29,431	—	—	170	—	400	400	—	559	559
United Arab Emirates .....	949	—	—	974	—	—	—	—	—	—
Venezuela .....	<b>19,514</b>	—	—	—	—	—	—	—	<b>1,029</b>	<b>1,029</b>
<b>Non-OPEC</b> .....	<b>147,480</b>	<b>4,524</b>	<b>625</b>	<b>15,605</b>	—	<b>2,418</b>	<b>2,418</b>	<b>4,339</b>	<b>11,492</b>	<b>15,831</b>
Argentina .....	—	—	—	—	—	—	—	—	182	182
Aruba .....	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	1,431	—	—	—	—	346	346
Brazil .....	514	—	—	403	—	—	—	—	964	964
Brunei .....	2,162	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—
Canada .....	104,358	4,469	471	1,684	—	347	347	2,206	1,319	3,525
Chad .....	950	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—
Colombia .....	5,600	—	—	—	—	—	—	—	669	669
Denmark .....	—	—	—	168	—	—	—	—	25	25
Egypt .....	—	—	—	304	—	—	—	—	—	—
Estonia .....	—	—	—	10	—	—	—	—	—	—
Finland .....	—	—	—	62	—	—	—	—	1,279	1,279
France .....	—	—	—	—	—	301	301	588	324	912
Germany .....	—	—	—	83	—	—	—	—	51	51
Guatemala .....	288	—	—	—	—	—	—	—	—	—
India .....	—	—	—	42	—	267	267	—	353	353
Indonesia .....	1,340	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	621	—	—	—	—	660	660
Korea, South .....	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	301	301
Malaysia .....	—	—	—	—	—	—	—	—	—	—
Mexico .....	21,563	—	35	338	—	—	—	—	—	—
Netherlands .....	—	—	—	123	—	324	324	124	755	879
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—
Norway .....	1,499	—	—	—	—	276	276	—	434	434
Oman .....	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	279	279	279	569	848
Russia .....	3,678	—	—	9,665	—	—	—	—	505	505
Spain .....	—	—	—	83	—	—	—	—	660	660
Sweden .....	—	—	—	—	—	—	—	—	15	15
Syria .....	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	360	55	—	—	—	—	—	—	—	—
United Kingdom .....	3,318	—	—	43	—	624	624	1,142	1,016	2,158
Vietnam .....	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—
Other .....	1,850	0	119	545	—	0	0	0	1,065	1,065
<b>Total</b> .....	<b>227,663</b>	<b>4,524</b>	<b>625</b>	<b>20,933</b>	—	<b>2,818</b>	<b>2,818</b>	<b>4,339</b>	<b>13,633</b>	<b>17,972</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>45,553</b>	—	—	<b>1,595</b>	—	<b>400</b>	<b>400</b>	—	<b>559</b>	<b>559</b>

See footnotes at end of table.

**Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	—	—	—	—	—	—	1,135	—	—	—	1,135
Algeria .....	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	736	—	—	—	736
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	399	—	—	—	399
<b>Non-OPEC</b> .....	44	71	35	277	324	—	3,566	40	390	16	4,012
Argentina .....	—	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—	—	—
Brazil .....	44	71	35	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	133	—	—	2,534	40	203	16	2,793
Chad .....	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	290	—	—	—	290
Denmark .....	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	144	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	250	—	—	—	250
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	492	—	187	—	679
Spain .....	—	—	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	0	0	0	324	—	0	0	0	0	0
<b>Total</b> .....	<b>44</b>	<b>71</b>	<b>35</b>	<b>277</b>	<b>324</b>	<b>—</b>	<b>4,701</b>	<b>40</b>	<b>390</b>	<b>16</b>	<b>5,147</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>736</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>736</b>

See footnotes at end of table.

**Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	25	—	250	—	—	250
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	25	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	250	—	—	250
<b>Non-OPEC</b> .....	—	4	—	5,410	354	421	454	5,670	6,545
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	280	—	280
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	4	—	401	106	281	174	989	1,444
Chad .....	—	—	—	—	—	—	—	—	—
China .....	—	—	—	659	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	297	297
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	1	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	3,732	154	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	97	97
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	140	—	872	1,012
Netherlands .....	—	—	—	—	—	—	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	1,040	1,040
Spain .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	1,161	1,161
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	—	0	—	617	94	0	0	1,214	1,214
<b>Total</b> .....	—	4	—	5,435	354	671	454	5,670	6,795
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	25	—	—	—	—	—

See footnotes at end of table.

**Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b>	—	—	—	—	36	373	—	9,688	89,871	2,673	323	2,996
Algeria	—	—	—	—	—	—	—	3,510	5,987	83	117	200
Angola	—	—	—	—	—	—	—	—	2,193	73	—	73
Congo (Brazzaville)	—	—	—	—	—	—	—	223	223	—	7	7
Ecuador	—	—	—	—	—	—	—	—	5,148	172	—	172
Equatorial Guinea	—	—	—	—	—	—	—	—	649	22	—	22
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	367	14,563	473	12	485
Kuwait	—	—	—	—	—	—	—	109	1,086	33	4	36
Libya	—	—	—	—	—	—	—	—	1,827	61	—	61
Nigeria	—	—	—	—	—	—	—	553	3,375	94	18	113
Qatar	—	—	—	—	—	301	—	301	301	—	10	10
Saudi Arabia	—	—	—	—	—	—	—	1,865	31,296	981	62	1,043
United Arab Emirates	—	—	—	—	—	72	—	1,046	1,995	32	35	67
Venezuela	—	—	—	—	36	—	—	1,714	21,228	650	57	708
<b>Non-OPEC</b>	401	111	247	51	1,328	965	1	59,187	206,667	4,916	1,973	6,889
Argentina	—	—	—	—	—	4	—	186	186	—	6	6
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	116	—	116	116	—	4	4
Belgium	—	—	—	—	—	6	—	1,783	1,783	—	59	59
Brazil	—	—	—	—	—	—	—	1,797	2,311	17	60	77
Brunei	—	—	—	—	—	—	—	—	2,162	72	—	72
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	75	85	35	47	839	203	1	16,662	121,020	3,479	555	4,034
Chad	—	—	—	—	—	—	—	—	950	32	—	32
China	—	—	169	—	—	—	—	828	828	—	28	28
Colombia	—	—	—	—	—	—	—	1,256	6,856	187	42	229
Denmark	—	—	—	—	—	—	—	193	193	—	6	6
Egypt	—	—	—	—	—	—	—	304	304	—	10	10
Estonia	—	—	—	—	—	—	—	10	10	—	0	0
Finland	—	—	—	—	—	—	—	1,341	1,341	—	45	45
France	—	26	—	—	—	16	—	1,255	1,255	—	42	42
Germany	—	—	—	—	—	15	—	293	293	—	10	10
Guatemala	—	—	—	—	—	—	—	—	288	10	—	10
India	—	—	—	—	—	—	—	913	913	—	30	30
Indonesia	—	—	—	—	—	—	—	—	1,340	45	—	45
Italy	—	—	—	—	—	73	—	1,354	1,354	—	45	45
Korea, South	—	—	1	—	66	455	—	4,408	4,408	—	147	147
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	398	398	—	13	13
Malaysia	—	—	10	—	—	—	—	10	10	—	0	0
Mexico	173	—	—	—	—	—	—	1,558	23,121	719	52	771
Netherlands	—	—	—	—	—	2	—	1,328	1,328	—	44	44
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	710	2,209	50	24	74
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	1,127	1,127	—	38	38
Russia	—	—	—	—	—	—	—	11,889	15,567	123	396	519
Spain	—	—	—	—	357	—	—	1,100	1,100	—	37	37
Sweden	—	—	—	2	—	1	—	18	18	—	1	1
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	1,216	1,576	12	41	53
United Kingdom	52	—	—	1	—	—	—	2,878	6,196	111	96	207
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	101	0	32	1	66	74	0	4,256	6,106	59	142	201
<b>Total</b>	<b>401</b>	<b>111</b>	<b>247</b>	<b>51</b>	<b>1,364</b>	<b>1,338</b>	<b>1</b>	<b>68,875</b>	<b>296,538</b>	<b>7,589</b>	<b>2,296</b>	<b>9,885</b>
<b>Persian Gulf<sup>3</sup></b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>489</b>	<b>—</b>	<b>3,804</b>	<b>49,357</b>	<b>1,518</b>	<b>127</b>	<b>1,645</b>

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."



**Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-September 2018**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>727,498</b>	<b>140</b>	<b>—</b>	<b>43,088</b>	<b>—</b>	<b>400</b>	<b>400</b>	<b>—</b>	<b>12,051</b>	<b>12,051</b>
Algeria .....	22,656	140	—	24,706	—	—	—	—	536	536
Angola .....	29,480	—	—	2	—	—	—	—	1,090	1,090
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—
Ecuador .....	48,896	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	5,890	—	—	—	—	—	—	—	—	—
Gabon .....	1,795	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—
Iraq .....	158,899	—	—	850	—	—	—	—	—	—
Kuwait .....	24,912	—	—	109	—	—	—	—	—	—
Libya .....	15,456	—	—	151	—	—	—	—	—	—
Nigeria .....	48,178	—	—	803	—	—	—	—	3,216	3,216
Qatar .....	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	229,109	—	—	1,428	—	400	400	—	864	864
United Arab Emirates .....	1,995	—	—	13,103	—	—	—	—	—	—
Venezuela .....	<b>138,004</b>	<b>—</b>	<b>—</b>	<b>789</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>6,345</b>	<b>6,345</b>
<b>Non-OPEC</b> .....	<b>1,432,359</b>	<b>43,302</b>	<b>6,718</b>	<b>127,778</b>	<b>—</b>	<b>12,908</b>	<b>12,908</b>	<b>51,555</b>	<b>129,514</b>	<b>181,069</b>
Argentina .....	5,271	—	—	13	—	—	—	—	731	731
Aruba .....	—	—	—	—	—	—	—	—	—	—
Australia .....	529	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	11,103	—	306	306	1,445	5,572	7,017
Brazil .....	38,484	—	—	2,567	—	—	—	—	4,941	4,941
Brunei .....	4,189	—	—	—	—	—	—	—	—	—
Cameroon .....	1,144	—	—	559	—	—	—	—	—	—
Canada .....	1,007,114	41,753	5,545	6,051	—	3,433	3,433	29,005	16,031	45,036
Chad .....	6,355	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	157	157
Colombia .....	87,817	—	—	425	—	103	103	—	4,424	4,424
Denmark .....	830	—	—	1,892	—	—	—	80	80	160
Egypt .....	7,473	—	—	1,561	—	—	—	96	593	689
Estonia .....	—	—	—	90	—	—	—	—	—	—
Finland .....	—	—	—	538	—	—	—	13	3,874	3,887
France .....	—	—	—	1,868	—	943	943	2,953	3,627	6,580
Germany .....	—	—	—	745	—	18	18	13	117	130
Guatemala .....	1,940	—	—	—	—	—	—	—	—	—
India .....	—	—	—	659	—	644	644	511	16,616	17,127
Indonesia .....	12,654	—	—	—	—	—	—	—	—	—
Italy .....	438	—	—	3,146	—	630	630	107	2,544	2,651
Korea, South .....	—	56	—	120	—	622	622	—	2,287	2,287
Latvia .....	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	624	624
Malaysia .....	588	—	—	382	—	—	—	—	—	—
Mexico .....	186,964	—	242	398	—	—	—	—	2,097	2,097
Netherlands .....	—	—	—	3,558	—	1,211	1,211	2,468	7,395	9,863
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—
Norway .....	11,769	595	—	4,917	—	277	277	636	4,902	5,538
Oman .....	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	1,106	1,106	1,485	7,102	8,587
Russia .....	20,029	—	—	70,565	—	378	378	248	10,751	10,999
Spain .....	—	—	—	2,787	—	326	326	47	11,899	11,946
Sweden .....	—	263	—	140	—	1,022	1,022	77	1,470	1,547
Syria .....	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	1,579	387	—	348	—	—	—	—	—	—
United Kingdom .....	16,356	192	—	901	—	1,205	1,205	12,371	9,741	22,112
Vietnam .....	788	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—
Other .....	20,048	56	931	12,445	—	684	684	0	11,939	11,939
<b>Total</b> .....	<b>2,159,857</b>	<b>43,442</b>	<b>6,718</b>	<b>170,866</b>	<b>—</b>	<b>13,308</b>	<b>13,308</b>	<b>51,555</b>	<b>141,565</b>	<b>193,120</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>414,915</b>	<b>—</b>	<b>—</b>	<b>15,490</b>	<b>—</b>	<b>400</b>	<b>400</b>	<b>—</b>	<b>864</b>	<b>864</b>

See footnotes at end of table.

**Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	—	—	—	—	—	—	6,524	—	140	100	6,764
Algeria .....	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	140	—	140
Qatar .....	—	—	—	—	—	—	2,190	—	—	—	2,190
Saudi Arabia .....	—	—	—	—	—	—	3,609	—	—	—	3,609
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	725	—	—	100	825
<b>Non-OPEC</b> .....	1,464	1,101	339	2,493	3,333	—	32,716	946	4,970	656	39,288
Argentina .....	88	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	52	—	—	—	—	—	605	—	—	—	605
Brazil .....	555	816	310	—	—	—	717	—	—	—	717
Brunel .....	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	1,423	—	—	22,256	373	4,256	65	26,950
Chad .....	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	365	—	—	—	365
Colombia .....	—	—	—	—	—	—	1,316	—	—	300	1,616
Denmark .....	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	259	—	—	—	—	—	—	—
Germany .....	87	—	—	718	—	—	—	—	—	—	5
Guatemala .....	—	—	29	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	2,529	—	—	—	2,529
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	93	—	—	331	—	—	—	331
Latvia .....	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	241	—	—	—	241
Mexico .....	—	—	—	—	—	—	293	—	277	—	570
Netherlands .....	337	285	—	—	—	—	524	—	—	69	593
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	161	—	—	—	161
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Russia .....	345	—	—	—	—	—	3,254	573	437	167	4,431
Spain .....	—	—	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	0	0	0	3,333	—	124	0	0	55	174
<b>Total</b> .....	<b>1,464</b>	<b>1,101</b>	<b>339</b>	<b>2,493</b>	<b>3,333</b>	<b>—</b>	<b>39,240</b>	<b>946</b>	<b>5,110</b>	<b>756</b>	<b>46,052</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>5,799</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>5,799</b>

See footnotes at end of table.

**Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	2,159	70	3,095	—	10,346	13,441
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	438	438
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	73	—	—	—	—	—
Kuwait .....	—	—	—	165	—	—	—	—	—
Libya .....	—	—	—	—	—	147	—	—	147
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	63	70	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	43	43
Venezuela .....	—	—	—	1,858	—	2,948	—	9,865	12,813
<b>Non-OPEC</b> .....	616	58	—	34,180	3,896	4,194	4,010	38,453	46,657
Argentina .....	—	—	—	6	—	208	317	1	526
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	350	350
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	53	78	50	—	128
Brazil .....	—	—	—	—	163	80	595	268	943
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	2	39	—	5,250	767	282	1,980	10,886	13,148
Chad .....	—	—	—	—	—	—	—	—	—
China .....	153	—	—	3,634	—	—	—	—	—
Colombia .....	108	—	—	—	—	—	—	2,103	2,103
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	32	—	326	358
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	107	123	—	—	123
Germany .....	—	—	—	—	14	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	1,946	30	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	74	—	—	—	—	—
Korea, South .....	353	—	—	17,995	1,730	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	97	97
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	37	423	—	9,686	10,109
Netherlands .....	—	19	—	—	3	57	—	1,057	1,114
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	53	—	—	—	—
Russia .....	—	—	—	7	—	1,749	—	3,788	5,537
Spain .....	—	—	—	—	—	—	263	80	343
Sweden .....	—	—	—	—	—	—	—	286	286
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	85	—	5,714	5,799
United Kingdom .....	—	—	—	—	—	38	—	—	38
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	0	0	—	5,268	939	1,039	805	3,811	5,655
<b>Total</b> .....	<b>616</b>	<b>58</b>	<b>—</b>	<b>36,339</b>	<b>3,966</b>	<b>7,289</b>	<b>4,010</b>	<b>48,799</b>	<b>60,098</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>301</b>	<b>70</b>	<b>—</b>	<b>—</b>	<b>43</b>	<b>43</b>

See footnotes at end of table.

**Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b> .....	558	—	—	—	809	3,465	—	82,945	810,443	2,665	304	2,969
Algeria .....	327	—	—	—	—	—	—	25,709	48,365	83	94	177
Angola .....	—	—	—	—	—	—	—	1,092	30,572	108	4	112
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	438	49,334	179	2	181
Equatorial Guinea .....	—	—	—	—	—	—	—	—	5,890	22	—	22
Gabon .....	—	—	—	—	—	—	—	—	1,795	7	—	7
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	923	159,822	582	3	585
Kuwait .....	—	—	—	—	—	—	—	274	25,186	91	1	92
Libya .....	—	—	—	—	—	—	—	298	15,754	57	1	58
Nigeria .....	231	—	—	—	—	—	—	4,390	52,568	176	16	193
Qatar .....	—	—	—	—	—	2,735	—	4,925	4,925	—	18	18
Saudi Arabia .....	—	—	—	—	—	—	—	6,434	235,543	839	24	863
United Arab Emirates .....	—	—	—	—	—	730	—	13,876	15,871	7	51	58
Venezuela .....	—	—	—	—	809	—	—	23,439	161,443	506	86	591
<b>Non-OPEC</b> .....	3,968	835	1,366	3,098	9,991	8,341	76	532,953	1,965,312	5,247	1,952	7,199
Argentina .....	—	36	—	887	—	41	—	2,328	7,599	19	9	28
Aruba .....	—	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	529	2	—	2
Bahamas .....	—	—	—	—	—	—	—	350	350	—	1	1
Bahrain .....	—	—	—	—	—	829	—	829	829	—	3	3
Belgium .....	—	—	—	—	78	137	—	19,481	19,481	—	71	71
Brazil .....	—	—	—	145	—	—	—	11,157	49,641	141	41	182
Brunel .....	—	—	—	—	—	—	—	—	4,189	15	—	15
Cameroon .....	—	—	—	—	—	—	—	559	1,703	4	2	6
Canada .....	637	634	417	714	8,708	2,173	17	162,723	1,169,837	3,689	596	4,285
Chad .....	—	—	—	—	—	—	—	—	6,355	23	—	23
China .....	—	—	637	318	91	—	—	5,355	5,355	—	20	20
Colombia .....	—	—	—	167	34	—	—	8,980	96,797	322	33	355
Denmark .....	—	—	—	—	—	—	—	2,052	2,882	3	8	11
Egypt .....	—	—	—	—	—	—	—	2,250	9,723	27	8	36
Estonia .....	—	—	—	—	—	—	—	448	448	—	2	2
Finland .....	—	—	—	—	—	16	—	4,441	4,441	—	16	16
France .....	27	165	—	—	—	135	—	10,207	10,207	—	37	37
Germany .....	—	—	17	—	—	139	—	1,877	1,877	—	7	7
Guatemala .....	—	—	—	—	—	—	—	29	1,969	7	0	7
India .....	—	—	—	—	—	—	—	22,935	22,935	—	84	84
Indonesia .....	—	—	—	—	—	560	—	560	13,214	46	2	48
Italy .....	—	—	—	—	—	232	—	6,740	7,178	2	25	26
Korea, South .....	23	—	5	—	66	3,459	—	27,140	27,140	—	99	99
Latvia .....	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	721	721	—	3	3
Malaysia .....	—	—	132	—	—	—	—	755	1,343	2	3	5
Mexico .....	1,913	—	—	—	—	—	—	15,366	202,330	685	56	741
Netherlands .....	53	—	—	—	—	8	59	17,114	17,114	—	63	63
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	11,327	23,096	43	41	85
Oman .....	—	—	—	403	—	66	—	630	630	—	2	2
Portugal .....	—	—	—	—	—	—	—	9,746	9,746	—	36	36
Russia .....	—	—	—	255	—	39	—	92,556	112,585	73	339	412
Spain .....	—	—	10	—	763	23	—	16,198	16,198	—	59	59
Sweden .....	—	—	—	7	—	3	—	3,268	3,268	—	12	12
Syria .....	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	6,534	8,113	6	24	30
United Kingdom .....	258	—	—	193	—	151	—	25,050	41,406	60	92	152
Vietnam .....	—	—	—	—	—	—	—	—	788	3	—	3
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—	—
Other .....	1,057	0	148	9	251	330	0	43,247	63,295	75	158	232
<b>Total</b> .....	<b>4,526</b>	<b>835</b>	<b>1,366</b>	<b>3,098</b>	<b>10,800</b>	<b>11,806</b>	<b>76</b>	<b>615,898</b>	<b>2,775,755</b>	<b>7,912</b>	<b>2,256</b>	<b>10,168</b>
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	4,294	—	27,261	442,176	1,520	100	1,620

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2018**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total
<b>OPEC</b> .....	<b>11,625</b>	—	—	<b>383</b>	—	<b>400</b>	<b>400</b>	—	<b>2,141</b>	<b>2,141</b>
Algeria .....	2,477	—	—	383	—	—	—	—	—	—
Angola .....	568	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—
Iraq .....	325	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—
Libya .....	1,827	—	—	—	—	—	—	—	—	—
Nigeria .....	2,822	—	—	—	—	—	—	—	553	553
Qatar .....	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	3,606	—	—	—	—	400	400	—	559	559
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	1,029	1,029
<b>Non-OPEC</b> .....	<b>13,665</b>	<b>630</b>	<b>108</b>	<b>1,442</b>	—	<b>2,350</b>	<b>2,350</b>	<b>4,339</b>	<b>9,621</b>	<b>13,960</b>
Argentina .....	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	346	346
Brazil .....	—	—	—	—	—	—	—	—	591	591
Brunei .....	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—
Canada .....	6,267	630	108	713	—	279	279	2,206	789	2,995
Chad .....	950	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—
Colombia .....	499	—	—	—	—	—	—	—	669	669
Denmark .....	—	—	—	—	—	—	—	—	25	25
Egypt .....	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	1,279	1,279
France .....	—	—	—	—	—	301	301	588	324	912
Germany .....	—	—	—	—	—	—	—	—	51	51
Guatemala .....	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	267	267	—	174	174
Indonesia .....	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	660	660
Korea, South .....	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—	—
Mexico .....	988	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	324	324	124	755	879
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—
Norway .....	1,499	—	—	—	—	276	276	—	434	434
Oman .....	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	279	279	279	569	848
Russia .....	1,662	—	—	536	—	—	—	—	505	505
Spain .....	—	—	—	—	—	—	—	—	660	660
Sweden .....	—	—	—	—	—	—	—	—	15	15
Syria .....	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	736	—	—	—	—	624	624	1,142	1,016	2,158
Vietnam .....	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—
Other .....	1,064	0	0	193	—	0	0	0	759	759
<b>Total</b> .....	<b>25,290</b>	<b>630</b>	<b>108</b>	<b>1,825</b>	—	<b>2,750</b>	<b>2,750</b>	<b>4,339</b>	<b>11,762</b>	<b>16,101</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>3,931</b>	—	—	—	—	<b>400</b>	<b>400</b>	—	<b>559</b>	<b>559</b>

See footnotes at end of table.

**Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	—	—	—	—	—	—	736	—	—	—	736
Algeria .....	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	736	—	—	—	736
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	—	—	—	159	—	—	2,930	40	10	—	2,980
Argentina .....	—	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	15	—	—	1,898	40	10	—	1,948
Chad .....	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	290	—	—	—	290
Denmark .....	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	144	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	250	—	—	—	250
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	492	—	—	—	492
Spain .....	—	—	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—
Other .....	—	—	—	0	—	—	0	0	0	—	0
<b>Total</b> .....	—	—	—	159	—	—	3,666	40	10	—	3,716
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	736	—	—	—	736

See footnotes at end of table.



**Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	—	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	—	1	—	2,149	2	—	—	2,099	2,099
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	1	—	382	2	—	—	641	641
Chad .....	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	297	297
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	1	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	1,766	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	—	—
Spain .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	1,161	1,161
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	—	0	—	0	0	—	—	0	0
<b>Total</b> .....	—	1	—	2,149	2	—	—	2,099	2,099
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b>	—	—	—	—	36	—	—	3,696	15,321	388	123	511
Algeria	—	—	—	—	—	—	—	383	2,860	83	13	95
Angola	—	—	—	—	—	—	—	—	568	19	—	19
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	325	11	—	11
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	1,827	61	—	61
Nigeria	—	—	—	—	—	—	—	553	3,375	94	18	113
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	1,695	5,301	120	57	177
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	36	—	—	1,065	1,065	—	36	36
<b>Non-OPEC</b>	—	—	127	2	994	132	—	27,135	40,800	456	905	1,360
Argentina	—	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	346	346	—	12	12
Brazil	—	—	—	—	—	—	—	591	591	—	20	20
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	32	—	571	81	—	8,398	14,665	209	280	489
Chad	—	—	—	—	—	—	—	—	950	32	—	32
China	—	—	62	—	—	—	—	62	62	—	2	2
Colombia	—	—	—	—	—	—	—	1,256	1,755	17	42	59
Denmark	—	—	—	—	—	—	—	25	25	—	1	1
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	1,279	1,279	—	43	43
France	—	—	—	—	—	11	—	1,224	1,224	—	41	41
Germany	—	—	—	—	—	7	—	202	202	—	7	7
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	692	692	—	23	23
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	8	—	668	668	—	22	22
Korea, South	—	—	1	—	—	23	—	1,790	1,790	—	60	60
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	988	33	—	33
Netherlands	—	—	—	—	—	2	—	1,205	1,205	—	40	40
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	710	2,209	50	24	74
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	1,127	1,127	—	38	38
Russia	—	—	—	—	—	—	—	1,533	3,195	55	51	107
Spain	—	—	—	—	357	—	—	1,017	1,017	—	34	34
Sweden	—	—	—	—	—	—	—	15	15	—	1	1
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	1,161	1,161	—	39	39
United Kingdom	—	—	—	1	—	—	—	2,783	3,519	25	93	117
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	32	1	66	0	—	1,051	2,115	35	32	66
<b>Total</b>	—	—	127	2	1,030	132	—	30,831	56,121	843	1,028	1,871
<b>Persian Gulf<sup>3</sup></b>	—	—	—	—	—	—	—	1,695	5,626	131	57	188

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2018**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	-	-	-	1,197	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	223	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	974	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	69,297	2,165	363	1,050	-	-	-	-	456	456
Argentina .....	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-	-	-	-	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-	-
Canada .....	68,798	2,165	363	53	-	-	-	-	456	456
Chad .....	-	-	-	-	-	-	-	-	-	-
China .....	-	-	-	-	-	-	-	-	-	-
Colombia .....	-	-	-	-	-	-	-	-	-	-
Denmark .....	-	-	-	-	-	-	-	-	-	-
Egypt .....	-	-	-	304	-	-	-	-	-	-
Estonia .....	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-
France .....	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-
Guatemala .....	-	-	-	-	-	-	-	-	-	-
India .....	-	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	-	-	-	-	-	-	-
Latvia .....	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-	-
Mexico .....	499	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-
Portugal .....	-	-	-	-	-	-	-	-	-	-
Russia .....	-	-	-	693	-	-	-	-	-	-
Spain .....	-	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-	-
Syria .....	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-
Other .....	0	0	0	0	-	-	-	-	0	0
<b>Total</b> .....	<b>69,297</b>	<b>2,165</b>	<b>363</b>	<b>2,247</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>456</b>	<b>456</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>-</b>	<b>-</b>	<b>-</b>	<b>974</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

See footnotes at end of table.

**Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	-	-	-	111	-	-	364	-	43	16	423
Argentina .....	-	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-	-	-	-	-	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	-	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-	-	-
Canada .....	-	-	-	111	-	-	364	-	43	16	423
Chad .....	-	-	-	-	-	-	-	-	-	-	-
China .....	-	-	-	-	-	-	-	-	-	-	-
Colombia .....	-	-	-	-	-	-	-	-	-	-	-
Denmark .....	-	-	-	-	-	-	-	-	-	-	-
Egypt .....	-	-	-	-	-	-	-	-	-	-	-
Estonia .....	-	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-	-
France .....	-	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-	-
Guatemala .....	-	-	-	-	-	-	-	-	-	-	-
India .....	-	-	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	-	-	-	-	-	-	-	-
Latvia .....	-	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-	-	-
Mexico .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-	-
Portugal .....	-	-	-	-	-	-	-	-	-	-	-
Russia .....	-	-	-	-	-	-	-	-	-	-	-
Spain .....	-	-	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-	-	-
Syria .....	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-	-
Other .....	-	-	-	0	-	-	0	-	0	0	0
<b>Total</b> .....	-	-	-	111	-	-	364	-	43	16	423
<b>Persian Gulf<sup>3</sup></b> .....	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	—	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	—	3	—	—	19	—	17	59	76
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	3	—	—	19	—	17	59	76
Chad .....	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	—	—
Spain .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	—	0	—	—	0	—	0	0	0
<b>Total</b> .....	—	3	—	—	19	—	17	59	76
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b> .....	—	—	—	—	—	1	—	1,198	1,198	—	40	40
Algeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	223	223	—	7	7
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	1	—	1	1	—	0	0
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	974	974	—	32	32
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	75	85	3	26	156	118	—	5,129	74,426	2,310	171	2,481
Argentina .....	—	—	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—	—
Canada .....	75	85	3	24	156	118	—	4,130	72,928	2,293	138	2,431
Chad .....	—	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	304	304	—	10	10
Estonia .....	—	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	499	17	—	17
Netherlands .....	—	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	693	693	—	23	23
Spain .....	—	—	—	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	2	—	—	—	2	2	—	0	0
Syria .....	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	0	0	0	0	0	—	0	0	0	0	0
<b>Total</b> .....	<b>75</b>	<b>85</b>	<b>3</b>	<b>26</b>	<b>156</b>	<b>119</b>	<b>—</b>	<b>6,327</b>	<b>75,624</b>	<b>2,310</b>	<b>211</b>	<b>2,521</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>1</b>	<b>—</b>	<b>975</b>	<b>975</b>	<b>—</b>	<b>33</b>	<b>33</b>

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."



**Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2018**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>45,777</b>	-	-	<b>2,997</b>	-	-	-	-	-	-
Algeria .....	-	-	-	2,376	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-
Ecuador .....	342	-	-	-	-	-	-	-	-	-
Equatorial Guinea .....	649	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	11,788	-	-	342	-	-	-	-	-	-
Kuwait .....	977	-	-	109	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	12,978	-	-	170	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-
Venezuela .....	<b>19,043</b>	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	<b>39,713</b>	-	154	<b>10,497</b>	-	-	-	-	1,341	1,341
Argentina .....	-	-	-	-	-	-	-	-	182	182
Aruba .....	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-	-	-	-	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	1,110	-	-	-	-	-	-
Brazil .....	514	-	-	383	-	-	-	-	373	373
Brunei .....	-	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-	-
Canada .....	15,086	-	-	588	-	-	-	-	-	-
Chad .....	-	-	-	-	-	-	-	-	-	-
China .....	-	-	-	-	-	-	-	-	-	-
Colombia .....	2,488	-	-	-	-	-	-	-	-	-
Denmark .....	-	-	-	168	-	-	-	-	-	-
Egypt .....	-	-	-	-	-	-	-	-	-	-
Estonia .....	-	-	-	10	-	-	-	-	-	-
Finland .....	-	-	-	62	-	-	-	-	-	-
France .....	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	83	-	-	-	-	-	-
Guatemala .....	288	-	-	-	-	-	-	-	-	-
India .....	-	-	-	42	-	-	-	-	179	179
Indonesia .....	-	-	-	-	-	-	-	-	-	-
Italy .....	-	-	-	263	-	-	-	-	-	-
Korea, South .....	-	-	-	-	-	-	-	-	-	-
Latvia .....	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	301	301
Malaysia .....	-	-	-	-	-	-	-	-	-	-
Mexico .....	18,344	-	35	338	-	-	-	-	-	-
Netherlands .....	-	-	-	123	-	-	-	-	-	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-
Portugal .....	-	-	-	-	-	-	-	-	-	-
Russia .....	-	-	-	6,976	-	-	-	-	-	-
Spain .....	-	-	-	83	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-	-
Syria .....	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	360	-	-	-	-	-	-	-	-	-
United Kingdom .....	2,109	-	-	43	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-
Other .....	524	-	119	225	-	-	-	-	306	306
<b>Total</b> .....	<b>85,490</b>	-	<b>154</b>	<b>13,494</b>	-	-	-	-	<b>1,341</b>	<b>1,341</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>25,743</b>	-	-	<b>621</b>	-	-	-	-	-	-

See footnotes at end of table.

**Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	—	—	—	—	—	—	399	—	—	—	399
Algeria .....	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	399	—	—	—	399
<b>Non-OPEC</b> .....	44	71	—	—	—	—	—	—	187	—	187
Argentina .....	—	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—	—	—
Brazil .....	44	71	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	—	—	—	—	—	—	—	—
Chad .....	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	—	187	—	187
Spain .....	—	—	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	0	—	—	—	—	0	—	0	—	0
<b>Total</b> .....	<b>44</b>	<b>71</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>399</b>	<b>—</b>	<b>187</b>	<b>—</b>	<b>586</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>

See footnotes at end of table.

**Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	—	—	250	—	—	250
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	250	—	—	250
<b>Non-OPEC</b> .....	—	—	—	—	333	421	280	2,022	2,723
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	280	—	280
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	—	85	281	—	213	494
Chad .....	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	154	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	97	97
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	140	—	606	746
Netherlands .....	—	—	—	—	—	—	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	1,040	1,040
Spain .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	—	—	—	—	94	0	0	66	66
<b>Total</b> .....	—	—	—	—	333	671	280	2,022	2,973
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b> .....	—	—	—	—	—	372	—	4,018	49,795	1,526	134	1,660
Algeria .....	—	—	—	—	—	—	—	2,376	2,376	—	79	79
Angola .....	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	342	11	—	11
Equatorial Guinea .....	—	—	—	—	—	—	—	—	649	22	—	22
Gabon .....	—	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	342	12,130	393	11	404
Kuwait .....	—	—	—	—	—	—	—	109	1,086	33	4	36
Libya .....	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	300	—	300	300	—	10	10
Saudi Arabia .....	—	—	—	—	—	—	—	170	13,148	433	6	438
United Arab Emirates .....	—	—	—	—	—	72	—	72	72	—	2	2
Venezuela .....	—	—	—	—	—	—	—	649	19,692	635	22	656
<b>Non-OPEC</b> .....	291	26	68	—	—	711	—	16,450	56,163	1,324	548	1,872
Argentina .....	—	—	—	—	—	4	—	186	186	—	6	6
Aruba .....	—	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	116	—	116	116	—	4	4
Belgium .....	—	—	—	—	—	6	—	1,116	1,116	—	37	37
Brazil .....	—	—	—	—	—	—	—	1,151	1,665	17	38	56
Brunei .....	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	—	—	—	—	1,167	16,253	503	39	542
Chad .....	—	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	58	—	—	—	—	58	58	—	2	2
Colombia .....	—	—	—	—	—	—	—	—	2,488	83	—	83
Denmark .....	—	—	—	—	—	—	—	168	168	—	6	6
Egypt .....	—	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	10	10	—	0	0
Finland .....	—	—	—	—	—	—	—	62	62	—	2	2
France .....	—	26	—	—	—	5	—	31	31	—	1	1
Germany .....	—	—	—	—	—	8	—	91	91	—	3	3
Guatemala .....	—	—	—	—	—	—	—	—	288	10	—	10
India .....	—	—	—	—	—	—	—	221	221	—	7	7
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	65	—	328	328	—	11	11
Korea, South .....	—	—	—	—	—	432	—	586	586	—	20	20
Latvia .....	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	398	398	—	13	13
Malaysia .....	—	—	10	—	—	—	—	10	10	—	0	0
Mexico .....	173	—	—	—	—	—	—	1,292	19,636	611	43	655
Netherlands .....	—	—	—	—	—	—	—	123	123	—	4	4
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	8,203	8,203	—	273	273
Spain .....	—	—	—	—	—	—	—	83	83	—	3	3
Sweden .....	—	—	—	—	—	1	—	1	1	—	0	0
Syria .....	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	360	12	—	12
United Kingdom .....	52	—	—	—	—	—	—	95	2,204	70	3	73
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—	—
Other .....	66	0	0	—	—	74	—	954	1,478	18	33	49
<b>Total</b> .....	<b>291</b>	<b>26</b>	<b>68</b>	<b>—</b>	<b>—</b>	<b>1,083</b>	<b>—</b>	<b>20,468</b>	<b>105,958</b>	<b>2,850</b>	<b>682</b>	<b>3,532</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>488</b>	<b>—</b>	<b>1,109</b>	<b>26,852</b>	<b>858</b>	<b>37</b>	<b>895</b>

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2018**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven- tional	Total	Reform-ulated	Conven- tional	Total
	PAD District 4									
OPEC .....	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-
Non-OPEC .....	9,278	272	-	-	-	-	-	-	74	74
Canada .....	9,278	272	-	-	-	-	-	-	74	74
Other .....	0	0	-	-	-	-	-	-	0	0
Total .....	9,278	272	-	-	-	-	-	-	74	74
	PAD District 5									
OPEC .....	22,781	-	-	751	-	-	-	-	-	-
Algeria .....	-	-	-	751	-	-	-	-	-	-
Angola .....	1,625	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-
Ecuador .....	4,806	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	2,083	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	12,847	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	949	-	-	-	-	-	-	-	-	-
Venezuela .....	471	-	-	-	-	-	-	-	-	-
Non-OPEC .....	15,527	1,457	-	2,616	-	68	68	-	-	-
Argentina .....	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	-	20	-	-	-	-	-	-
Brunei .....	2,162	-	-	-	-	-	-	-	-	-
Canada .....	4,929	1,402	-	330	-	68	68	-	-	-
China .....	-	-	-	-	-	-	-	-	-	-
Colombia .....	2,613	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-
Indonesia .....	1,340	-	-	-	-	-	-	-	-	-
Japan .....	-	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-	-
Mexico .....	1,732	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-
Papua New Guinea .....	-	-	-	-	-	-	-	-	-	-
Peru .....	262	-	-	104	-	-	-	-	-	-
Singapore .....	-	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-	-
Taiwan .....	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	473	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-
Other .....	2,016	55	-	2,162	-	0	0	-	-	-
Total .....	38,308	1,457	-	3,367	-	68	68	-	-	-
Persian Gulf <sup>3</sup> .....	15,879	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
<b>PAD District 4</b>											
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	-	-	-	5	-	-	49	-	-	-	49
Canada .....	-	-	-	5	-	-	49	-	-	-	49
Other .....	-	-	-	0	-	-	0	-	-	-	0
<b>Total</b> .....	-	-	-	5	-	-	49	-	-	-	49
<b>PAD District 5</b>											
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	-	-	35	2	324	-	223	-	150	-	373
Argentina .....	-	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	35	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-	-	-
Canada .....	-	-	-	2	-	-	223	-	150	-	373
China .....	-	-	-	-	-	-	-	-	-	-	-
Colombia .....	-	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-	-	-
Japan .....	-	-	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-	-	-
Mexico .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea .....	-	-	-	-	-	-	-	-	-	-	-
Peru .....	-	-	-	-	-	-	-	-	-	-	-
Singapore .....	-	-	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-	-	-
Taiwan .....	-	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-	-
Other .....	-	-	0	0	324	-	0	-	0	-	0
<b>Total</b> .....	-	-	35	2	324	-	223	-	150	-	373
<b>Persian Gulf<sup>3</sup></b> .....	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2018**  
(Thousand Barrels) — Continued

Country of Origin						Residual Fuel Oil			
	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
	PAD District 4								
OPEC .....	—	—	—	25	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	25	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—
Non-OPEC .....	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	—	—	—	—	—	—
Other .....	—	—	—	0	—	—	—	—	—
Total .....	—	—	—	25	—	—	—	—	—
	PAD District 5								
OPEC .....	—	—	—	—	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—
Non-OPEC .....	—	—	—	3,261	—	—	157	1,490	1,647
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	19	—	—	157	76	233
China .....	—	—	—	659	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Japan .....	—	—	—	417	—	—	—	—	—
Korea, South .....	—	—	—	1,966	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	266	266
Netherlands .....	—	—	—	—	—	—	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Papua New Guinea .....	—	—	—	—	—	—	—	—	—
Peru .....	—	—	—	—	—	—	—	896	896
Singapore .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—
Taiwan .....	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Other .....	—	—	—	200	—	—	0	252	252
Total .....	—	—	—	3,261	—	—	157	1,490	1,647
Persian Gulf <sup>3</sup> .....	—	—	—	—	—	—	—	—	—

See footnotes at end of table.



**Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks									Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
	PAD District 4											
OPEC .....	—	—	—	—	—	—	—	25	25	—	1	1
Algeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	25	25	—	1	1
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC .....	—	—	—	—	10	—	1	411	9,689	309	14	323
Canada .....	—	—	—	—	10	—	1	411	9,689	309	14	323
Other .....	—	—	—	—	0	—	0	0	0	0	0	0
Total .....	—	—	—	—	10	—	1	436	9,714	309	15	324
	PAD District 5											
OPEC .....	—	—	—	—	—	—	—	751	23,532	759	25	784
Algeria .....	—	—	—	—	—	—	—	751	751	—	25	25
Angola .....	—	—	—	—	—	—	—	—	1,625	54	—	54
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	4,806	160	—	160
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	2,083	69	—	69
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	12,847	428	—	428
United Arab Emirates .....	—	—	—	—	—	—	—	—	949	32	—	32
Venezuela .....	—	—	—	—	—	—	—	—	471	16	—	16
Non-OPEC .....	35	—	49	23	168	4	—	10,062	25,589	518	335	853
Argentina .....	—	—	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	55	55	—	2	2
Brunei .....	—	—	—	—	—	—	—	—	2,162	72	—	72
Canada .....	—	—	—	23	102	4	—	2,556	7,485	164	85	250
China .....	—	—	49	—	—	—	—	708	708	—	24	24
Colombia .....	—	—	—	—	—	—	—	—	2,613	87	—	87
Finland .....	—	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	1,340	45	—	45
Japan .....	—	—	—	—	—	—	—	417	417	—	14	14
Korea, South .....	—	—	—	—	66	—	—	2,032	2,032	—	68	68
Malaysia .....	—	—	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	266	1,998	58	9	67
Netherlands .....	—	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—	—
Papua New Guinea .....	—	—	—	—	—	—	—	—	—	—	—	—
Peru .....	—	—	—	—	—	—	—	1,000	1,262	9	33	42
Singapore .....	—	—	—	—	—	—	—	324	324	—	11	11
Sweden .....	—	—	—	—	—	—	—	—	—	—	—	—
Taiwan .....	35	—	—	—	—	—	—	35	35	—	1	1
United Kingdom .....	—	—	—	—	—	—	—	—	473	16	—	16
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	—	0	0	0	0	—	2,669	4,685	67	88	154
Total .....	35	—	49	23	168	4	—	10,813	49,121	1,277	360	1,637
Persian Gulf <sup>3</sup> .....	—	—	—	—	—	—	—	—	15,879	529	—	529

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2018**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>124,375</b>	<b>140</b>	<b>-</b>	<b>3,593</b>	<b>-</b>	<b>400</b>	<b>400</b>	<b>-</b>	<b>10,987</b>	<b>10,987</b>
Algeria .....	22,656	140	-	2,940	-	-	-	-	218	218
Angola .....	12,193	-	-	2	-	-	-	-	1,090	1,090
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea .....	1,001	-	-	-	-	-	-	-	-	-
Gabon .....	1,397	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	12,833	-	-	398	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-
Libya .....	9,455	-	-	-	-	-	-	-	-	-
Nigeria .....	36,347	-	-	253	-	-	-	-	2,925	2,925
Qatar .....	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	26,265	-	-	-	-	400	400	-	864	864
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	5,890	5,890
<b>Non-OPEC</b> .....	<b>113,671</b>	<b>10,576</b>	<b>1,863</b>	<b>7,796</b>	<b>-</b>	<b>10,463</b>	<b>10,463</b>	<b>50,540</b>	<b>103,979</b>	<b>154,519</b>
Argentina .....	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-	-	-	-	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	306	306	1,445	5,531	6,976
Brazil .....	991	-	-	-	-	-	-	-	3,891	3,891
Brunei .....	-	-	-	-	-	-	-	-	-	-
Cameroon .....	1,144	-	-	-	-	-	-	-	-	-
Canada .....	57,169	9,581	1,863	1,077	-	3,088	3,088	28,941	10,520	39,461
Chad .....	3,756	-	-	-	-	-	-	-	-	-
China .....	-	-	-	-	-	-	-	-	-	-
Colombia .....	7,474	-	-	209	-	103	103	-	4,072	4,072
Denmark .....	830	-	-	369	-	-	-	10	65	75
Egypt .....	4,712	-	-	-	-	-	-	96	334	430
Estonia .....	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	13	3,545	3,558
France .....	-	-	-	-	-	883	883	2,936	3,052	5,988
Germany .....	-	-	-	57	-	18	18	13	117	130
Guatemala .....	-	-	-	-	-	-	-	-	-	-
India .....	-	-	-	125	-	267	267	511	15,479	15,990
Indonesia .....	-	-	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	630	630	107	2,186	2,293
Korea, South .....	-	-	-	-	-	-	-	-	1,366	1,366
Latvia .....	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	323	323
Malaysia .....	-	-	-	-	-	-	-	-	-	-
Mexico .....	3,469	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	303	-	1,162	1,162	2,030	6,304	8,334
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-
Norway .....	11,769	540	-	58	-	276	276	636	4,863	5,499
Oman .....	-	-	-	-	-	-	-	-	-	-
Portugal .....	-	-	-	-	-	1,106	1,106	1,485	6,896	8,381
Russia .....	8,128	-	-	2,980	-	241	241	188	10,662	10,850
Spain .....	-	-	-	888	-	275	275	47	10,005	10,052
Sweden .....	-	263	-	82	-	968	968	30	1,051	1,081
Syria .....	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	4,055	-	-	226	-	1,140	1,140	12,052	8,336	20,388
Vietnam .....	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-
Other .....	8,777	192	0	1,422	-	0	0	0	5,381	5,381
<b>Total</b> .....	<b>238,046</b>	<b>10,716</b>	<b>1,863</b>	<b>11,389</b>	<b>-</b>	<b>10,863</b>	<b>10,863</b>	<b>50,540</b>	<b>114,966</b>	<b>165,506</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>39,098</b>	<b>-</b>	<b>-</b>	<b>398</b>	<b>-</b>	<b>400</b>	<b>400</b>	<b>-</b>	<b>864</b>	<b>864</b>

See footnotes at end of table.

**Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	—	—	—	—	—	—	5,799	—	—	100	5,899
Algeria .....	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	2,190	—	—	—	2,190
Saudi Arabia .....	—	—	—	—	—	—	3,609	—	—	—	3,609
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—	100	100
<b>Non-OPEC</b> .....	—	—	—	1,422	—	—	27,801	946	3,739	350	32,836
Argentina .....	—	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	605	—	—	—	605
Brazil .....	—	—	—	—	—	—	717	—	—	—	717
Brunei .....	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	670	—	—	18,711	373	3,489	—	22,573
Chad .....	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	1,316	—	—	300	1,616
Denmark .....	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	105	—	—	—	—	—	—	—
Germany .....	—	—	—	647	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	2,529	—	—	—	2,529
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	508	—	—	—	508
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	161	—	—	—	161
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	3,254	573	250	—	4,077
Spain .....	—	—	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—
Other .....	—	—	—	0	—	—	0	0	0	50	50
<b>Total</b> .....	—	—	—	1,422	—	—	33,600	946	3,739	450	38,735
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	5,799	—	—	—	5,799

See footnotes at end of table.

**Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	2,088	—	147	—	6,195	6,342
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	2	—	—	—	—	—
Kuwait .....	—	—	—	165	—	—	—	—	—
Libya .....	—	—	—	—	—	147	—	—	147
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	63	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	1,858	—	—	—	6,195	6,195
<b>Non-OPEC</b> .....	614	27	—	11,892	6	545	884	17,900	19,329
Argentina .....	—	—	—	6	—	204	317	—	521
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	80	315	268	663
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	8	—	5,172	6	—	127	8,725	8,852
Chad .....	—	—	—	—	—	—	—	—	—
China .....	153	—	—	116	—	—	—	—	—
Colombia .....	108	—	—	—	—	—	—	1,814	1,814
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	1,946	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	74	—	—	—	—	—
Korea, South .....	353	—	—	4,393	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	419	419
Netherlands .....	—	19	—	—	—	—	—	707	707
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	7	—	—	—	260	260
Spain .....	—	—	—	—	—	—	—	80	80
Sweden .....	—	—	—	—	—	—	—	286	286
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	4,747	4,747
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	0	0	—	178	0	261	125	594	980
<b>Total</b> .....	<b>614</b>	<b>27</b>	<b>—</b>	<b>13,980</b>	<b>6</b>	<b>692</b>	<b>884</b>	<b>24,095</b>	<b>25,671</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>230</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>

See footnotes at end of table.

**Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b>	—	—	—	—	809	125	—	30,383	154,758	456	111	567
Algeria	—	—	—	—	—	—	—	3,298	25,954	83	12	95
Angola	—	—	—	—	—	—	—	1,092	13,285	45	4	49
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	1,001	4	—	4
Gabon	—	—	—	—	—	—	—	—	1,397	5	—	5
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	400	13,233	47	1	48
Kuwait	—	—	—	—	—	—	—	165	165	—	1	1
Libya	—	—	—	—	—	—	—	147	9,602	35	1	35
Nigeria	—	—	—	—	—	—	—	3,178	39,525	133	12	145
Qatar	—	—	—	—	—	—	—	2,190	2,190	—	8	8
Saudi Arabia	—	—	—	—	—	—	—	4,936	31,201	96	18	114
United Arab Emirates	—	—	—	—	—	125	—	125	125	—	0	0
Venezuela	—	—	—	—	809	—	—	14,852	14,852	—	54	54
<b>Non-OPEC</b>	9	1	693	186	6,356	1,331	—	259,919	373,590	416	952	1,368
Argentina	—	—	—	—	—	13	—	540	540	—	2	2
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	51	—	51	51	—	0	0
Belgium	—	—	—	—	78	43	—	8,008	8,008	—	29	29
Brazil	—	—	—	—	—	—	—	5,271	6,262	4	19	23
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	1,144	4	—	4
Canada	2	1	374	2	5,230	882	—	98,842	156,011	209	362	571
Chad	—	—	—	—	—	—	—	—	3,756	14	—	14
China	—	—	210	—	—	—	—	479	479	—	2	2
Colombia	—	—	—	167	34	—	—	8,123	15,597	27	30	57
Denmark	—	—	—	—	—	—	—	444	1,274	3	2	5
Egypt	—	—	—	—	—	—	—	430	5,142	17	2	19
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	15	—	3,573	3,573	—	13	13
France	—	—	—	—	—	84	—	7,060	7,060	—	26	26
Germany	—	—	17	—	—	74	—	943	943	—	3	3
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	20,857	20,857	—	76	76
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	19	—	3,016	3,016	—	11	11
Korea, South	—	—	5	—	—	92	—	6,209	6,209	—	23	23
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	323	323	—	1	1
Malaysia	—	—	3	—	—	—	—	3	3	—	0	0
Mexico	—	—	—	—	—	—	—	419	3,888	13	2	14
Netherlands	—	—	—	—	—	8	—	11,041	11,041	—	40	40
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	6,373	18,142	43	23	66
Oman	—	—	—	—	—	—	—	161	161	—	1	1
Portugal	—	—	—	—	—	—	—	9,487	9,487	—	35	35
Russia	—	—	—	—	—	39	—	18,454	26,582	30	68	97
Spain	—	—	10	—	763	—	—	12,068	12,068	—	44	44
Sweden	—	—	—	—	—	—	—	2,680	2,680	—	10	10
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	4,747	4,747	—	17	17
United Kingdom	7	—	—	8	—	—	—	21,961	26,016	15	80	95
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	74	9	251	11	—	8,356	17,133	32	31	65
<b>Total</b>	<b>9</b>	<b>1</b>	<b>693</b>	<b>186</b>	<b>7,165</b>	<b>1,456</b>	<b>—</b>	<b>290,302</b>	<b>528,348</b>	<b>872</b>	<b>1,063</b>	<b>1,935</b>
<b>Persian Gulf<sup>3</sup></b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>176</b>	<b>—</b>	<b>7,867</b>	<b>46,965</b>	<b>143</b>	<b>29</b>	<b>172</b>

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2018**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	574	-	-	1,197	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	223	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	574	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	974	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	679,009	19,031	3,680	1,800	-	-	-	64	3,485	3,549
Argentina .....	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-	-	-	-	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	-	-	-	-	-	-	22	22
Brunei .....	-	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-	-
Canada .....	675,499	19,031	3,680	482	-	-	-	64	3,463	3,527
Chad .....	-	-	-	-	-	-	-	-	-	-
China .....	-	-	-	-	-	-	-	-	-	-
Colombia .....	-	-	-	-	-	-	-	-	-	-
Denmark .....	-	-	-	-	-	-	-	-	-	-
Egypt .....	-	-	-	304	-	-	-	-	-	-
Estonia .....	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-
France .....	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-
Guatemala .....	-	-	-	-	-	-	-	-	-	-
India .....	-	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	-	-	-	-	-	-	-
Latvia .....	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-	-
Mexico .....	3,510	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-
Portugal .....	-	-	-	-	-	-	-	-	-	-
Russia .....	-	-	-	693	-	-	-	-	-	-
Spain .....	-	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-	-
Syria .....	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-
Other .....	0	0	0	321	-	-	-	0	0	0
<b>Total</b> .....	679,583	19,031	3,680	2,997	-	-	-	64	3,485	3,549
<b>Persian Gulf<sup>3</sup></b> .....	574	-	-	974	-	-	-	-	-	-

See footnotes at end of table.

**Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	-	-	-	462	-	-	1,142	-	504	65	1,711
Argentina .....	-	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-	-	-	-	-	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	-	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-	-	-
Canada .....	-	-	-	462	-	-	1,142	-	504	65	1,711
Chad .....	-	-	-	-	-	-	-	-	-	-	-
China .....	-	-	-	-	-	-	-	-	-	-	-
Colombia .....	-	-	-	-	-	-	-	-	-	-	-
Denmark .....	-	-	-	-	-	-	-	-	-	-	-
Egypt .....	-	-	-	-	-	-	-	-	-	-	-
Estonia .....	-	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-	-
France .....	-	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-	-
Guatemala .....	-	-	-	-	-	-	-	-	-	-	-
India .....	-	-	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	-	-	-	-	-	-	-	-
Latvia .....	-	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-	-	-
Mexico .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-	-
Portugal .....	-	-	-	-	-	-	-	-	-	-	-
Russia .....	-	-	-	-	-	-	-	-	-	-	-
Spain .....	-	-	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-	-	-
Syria .....	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-	-
Other .....	-	-	-	0	-	-	0	-	0	0	0
<b>Total</b> .....	-	-	-	462	-	-	1,142	-	504	65	1,711
<b>Persian Gulf<sup>3</sup></b> .....	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



**Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	2	23	-	-	359	1	293	596	890
Argentina .....	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-	-	-	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-
Canada .....	2	23	-	-	359	1	293	596	890
Chad .....	-	-	-	-	-	-	-	-	-
China .....	-	-	-	-	-	-	-	-	-
Colombia .....	-	-	-	-	-	-	-	-	-
Denmark .....	-	-	-	-	-	-	-	-	-
Egypt .....	-	-	-	-	-	-	-	-	-
Estonia .....	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-
France .....	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-
Guatemala .....	-	-	-	-	-	-	-	-	-
India .....	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	-	-	-	-	-	-
Latvia .....	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-
Mexico .....	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-
Portugal .....	-	-	-	-	-	-	-	-	-
Russia .....	-	-	-	-	-	-	-	-	-
Spain .....	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-
Syria .....	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-
Other .....	0	0	-	-	0	0	0	0	0
<b>Total</b> .....	2	23	-	-	359	1	293	596	890
<b>Persian Gulf<sup>3</sup></b> .....	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b> .....	—	—	—	—	—	6	—	1,203	1,777	2	4	7
Algeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	223	223	—	1	1
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	574	2	—	2
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	6	—	6	6	—	0	0
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	974	974	—	4	4
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	635	633	43	243	2,414	1,220	8	36,729	715,738	2,487	135	2,622
Argentina .....	—	—	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	22	22	—	0	0
Brunei .....	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—	—
Canada .....	635	633	43	236	2,414	1,216	8	35,378	710,877	2,474	130	2,604
Chad .....	—	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	304	304	—	1	1
Estonia .....	—	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	1	—	1	1	—	0	0
France .....	—	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	1	—	1	1	—	0	0
Korea, South .....	—	—	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	3,510	13	—	13
Netherlands .....	—	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	693	693	—	3	3
Spain .....	—	—	—	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	7	—	—	—	7	7	—	0	0
Syria .....	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	0	0	0	0	2	0	323	323	0	1	1
<b>Total</b> .....	<b>635</b>	<b>633</b>	<b>43</b>	<b>243</b>	<b>2,414</b>	<b>1,226</b>	<b>8</b>	<b>37,932</b>	<b>717,515</b>	<b>2,489</b>	<b>139</b>	<b>2,628</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>6</b>	<b>—</b>	<b>980</b>	<b>1,554</b>	<b>2</b>	<b>4</b>	<b>6</b>

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2018**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>405,361</b>	—	—	<b>32,243</b>	—	—	—	—	<b>836</b>	<b>836</b>
Algeria .....	—	—	—	17,133	—	—	—	—	318	318
Angola .....	6,967	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—
Ecuador .....	10,540	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	1,943	—	—	—	—	—	—	—	—	—
Gabon .....	398	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—
Iraq .....	120,597	—	—	452	—	—	—	—	—	—
Kuwait .....	11,915	—	—	109	—	—	—	—	—	—
Libya .....	—	—	—	151	—	—	—	—	—	—
Nigeria .....	9,834	—	—	464	—	—	—	63	—	63
Qatar .....	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	107,265	—	—	1,428	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	10,793	—	—	—	—	—	—
Venezuela .....	<b>135,902</b>	—	—	<b>789</b>	—	—	—	455	—	455
<b>Non-OPEC</b> .....	<b>382,082</b>	<b>1</b>	<b>1,173</b>	<b>99,839</b>	—	<b>597</b>	<b>597</b>	—	<b>16,450</b>	<b>16,450</b>
Argentina .....	2,063	—	—	13	—	—	—	—	731	731
Aruba .....	—	—	—	—	—	—	—	—	—	—
Australia .....	529	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	10,597	—	—	—	41	—	41
Brazil .....	16,006	—	—	2,547	—	—	—	1,028	—	1,028
Brunei .....	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	559	—	—	—	—	—	—
Canada .....	126,825	<b>1</b>	—	2,557	—	—	—	—	—	—
Chad .....	2,599	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—
Colombia .....	44,908	—	—	216	—	—	—	55	—	55
Denmark .....	—	—	—	1,140	—	—	—	15	—	15
Egypt .....	2,761	—	—	1,257	—	—	—	259	—	259
Estonia .....	—	—	—	90	—	—	—	—	—	—
Finland .....	—	—	—	538	—	—	—	329	—	329
France .....	—	—	—	1,868	—	60	60	575	—	575
Germany .....	—	—	—	592	—	—	—	—	—	—
Guatemala .....	1,940	—	—	—	—	—	—	—	—	—
India .....	—	—	—	534	—	—	—	1,137	—	1,137
Indonesia .....	—	—	—	—	—	—	—	—	—	—
Italy .....	438	—	—	2,634	—	—	—	358	—	358
Korea, South .....	—	—	—	—	—	—	—	266	—	266
Latvia .....	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	301	—	301
Malaysia .....	—	—	—	120	—	—	—	—	—	—
Mexico .....	165,784	—	242	398	—	—	—	2,097	—	2,097
Netherlands .....	—	—	—	3,022	—	1	1	778	—	778
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	4,859	—	—	—	39	—	39
Oman .....	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	206	—	206
Russia .....	—	—	—	55,829	—	—	—	89	—	89
Spain .....	—	—	—	1,439	—	51	51	1,894	—	1,894
Sweden .....	—	—	—	58	—	54	54	419	—	419
Syria .....	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	1,579	—	—	348	—	—	—	—	—	—
United Kingdom .....	11,512	—	—	675	—	—	—	1,405	—	1,405
Vietnam .....	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—
Other .....	4,740	0	931	7,949	—	431	431	—	4,428	4,428
<b>Total</b> .....	<b>787,443</b>	<b>1</b>	<b>1,173</b>	<b>132,082</b>	—	<b>597</b>	<b>597</b>	—	<b>17,286</b>	<b>17,286</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>239,777</b>	—	—	<b>12,782</b>	—	—	—	—	—	—

See footnotes at end of table.

**Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	—	—	—	—	—	—	725	—	140	—	865
Algeria .....	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	140	—	140
Qatar .....	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	725	—	—	—	725
<b>Non-OPEC</b> .....	1,464	1,101	—	367	—	—	309	—	541	241	1,091
Argentina .....	88	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	52	—	—	—	—	—	—	—	—	—	—
Brazil .....	555	816	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	142	—	—	—	—	77	—	77
Chad .....	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	154	—	—	—	—	—	—	—
Germany .....	87	—	—	71	—	—	—	—	—	—	5
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	293	—	277	—	570
Netherlands .....	337	285	—	—	—	—	16	—	—	—	85
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Russia .....	345	—	—	—	—	—	—	—	187	167	354
Spain .....	—	—	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	0	—	0	—	—	0	—	0	74	0
<b>Total</b> .....	<b>1,464</b>	<b>1,101</b>	<b>—</b>	<b>367</b>	<b>—</b>	<b>—</b>	<b>1,034</b>	<b>—</b>	<b>681</b>	<b>241</b>	<b>1,956</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>

See footnotes at end of table.

**Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	—	70	2,948	—	3,370	6,318
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	70	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	43	43
Venezuela .....	—	—	—	—	—	2,948	—	3,327	6,275
<b>Non-OPEC</b> .....	—	—	—	—	3,531	3,648	1,273	12,784	17,705
Argentina .....	—	—	—	—	—	4	—	1	5
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	53	78	50	—	128
Brazil .....	—	—	—	—	163	—	280	—	280
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	—	402	281	—	818	1,099
Chad .....	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	289	289
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	32	—	326	358
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	107	123	—	—	123
Germany .....	—	—	—	—	14	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	30	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	1,730	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	97	97
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	37	423	—	6,611	7,034
Netherlands .....	—	—	—	—	3	57	—	—	57
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	53	—	—	—	—
Russia .....	—	—	—	—	—	1,749	—	3,168	4,917
Spain .....	—	—	—	—	—	—	263	—	263
Sweden .....	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	85	—	967	1,052
United Kingdom .....	—	—	—	—	—	38	—	—	38
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	—	—	—	—	939	778	680	507	1,965
<b>Total</b> .....	—	—	—	—	3,601	6,596	1,273	16,154	24,023
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	70	—	—	43	43

See footnotes at end of table.

**Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b> .....	558	—	—	—	—	3,334	—	44,224	449,585	1,485	162	1,647
Algeria .....	327	—	—	—	—	—	—	17,778	17,778	—	65	65
Angola .....	—	—	—	—	—	—	—	—	6,967	26	—	26
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	10,540	39	—	39
Equatorial Guinea .....	—	—	—	—	—	—	—	—	1,943	7	—	7
Gabon .....	—	—	—	—	—	—	—	—	398	1	—	1
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	452	121,049	442	2	443
Kuwait .....	—	—	—	—	—	—	—	109	12,024	44	0	44
Libya .....	—	—	—	—	—	—	—	151	151	—	1	1
Nigeria .....	231	—	—	—	—	—	—	898	10,732	36	3	39
Qatar .....	—	—	—	—	—	2,729	—	2,729	2,729	—	10	10
Saudi Arabia .....	—	—	—	—	—	—	—	1,498	108,763	393	5	398
United Arab Emirates .....	—	—	—	—	—	605	—	11,441	11,441	—	42	42
Venezuela .....	—	—	—	—	—	—	—	8,244	144,146	498	30	528
<b>Non-OPEC</b> .....	2,984	201	331	2,436	—	5,701	59	155,083	537,165	1,400	568	1,968
Argentina .....	—	36	—	887	—	28	—	1,788	3,851	8	7	14
Aruba .....	—	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	529	2	—	2
Bahamas .....	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	778	—	778	778	—	3	3
Belgium .....	—	—	—	—	—	94	—	10,967	10,967	—	40	40
Brazil .....	—	—	—	145	—	—	—	5,534	21,540	59	20	79
Brunei .....	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	559	559	—	2	2
Canada .....	—	—	—	243	—	9	—	4,530	131,355	465	17	481
Chad .....	—	—	—	—	—	—	—	—	2,599	10	—	10
China .....	—	—	168	318	—	—	—	486	486	—	2	2
Colombia .....	—	—	—	—	—	—	—	560	45,468	164	2	167
Denmark .....	—	—	—	—	—	—	—	1,155	1,155	—	4	4
Egypt .....	—	—	—	—	—	—	—	1,516	4,277	10	6	16
Estonia .....	—	—	—	—	—	—	—	448	448	—	2	2
Finland .....	—	—	—	—	—	—	—	867	867	—	3	3
France .....	27	165	—	—	—	51	—	3,130	3,130	—	11	11
Germany .....	—	—	—	—	—	65	—	838	838	—	3	3
Guatemala .....	—	—	—	—	—	—	—	—	1,940	7	—	7
India .....	—	—	—	—	—	—	—	1,701	1,701	—	6	6
Indonesia .....	—	—	—	—	—	560	—	560	560	—	2	2
Italy .....	—	—	—	—	—	212	—	3,211	3,649	2	12	13
Korea, South .....	23	—	—	—	—	3,344	—	5,363	5,363	—	20	20
Latvia .....	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	398	398	—	1	1
Malaysia .....	—	—	127	—	—	—	—	247	247	—	1	1
Mexico .....	1,913	—	—	—	—	—	—	12,291	178,075	607	45	652
Netherlands .....	53	—	—	—	—	—	59	4,691	4,691	—	17	17
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	4,898	4,898	—	18	18
Oman .....	—	—	—	403	—	66	—	469	469	—	2	2
Portugal .....	—	—	—	—	—	—	—	259	259	—	1	1
Russia .....	—	—	—	255	—	—	—	61,789	61,789	—	226	226
Spain .....	—	—	—	—	—	23	—	3,670	3,670	—	13	13
Sweden .....	—	—	—	—	—	3	—	534	534	—	2	2
Syria .....	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	1,400	2,979	6	5	11
United Kingdom .....	251	—	—	185	—	151	—	2,705	14,217	42	10	52
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—	—
Other .....	717	0	36	0	—	317	0	17,741	22,481	17	65	84
<b>Total</b> .....	<b>3,542</b>	<b>201</b>	<b>331</b>	<b>2,436</b>	<b>—</b>	<b>9,035</b>	<b>59</b>	<b>199,307</b>	<b>986,750</b>	<b>2,884</b>	<b>730</b>	<b>3,614</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>4,112</b>	<b>—</b>	<b>17,007</b>	<b>256,784</b>	<b>878</b>	<b>62</b>	<b>941</b>

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2018**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
	PAD District 4									
OPEC .....	—	—	—	—	—	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—	—
Non-OPEC .....	81,685	2,832	—	32	—	—	—	—	675	675
Canada .....	81,685	2,832	—	32	—	—	—	—	675	675
Other .....	0	0	—	0	—	—	—	—	0	0
Total .....	81,685	2,832	—	32	—	—	—	—	675	675
	PAD District 5									
OPEC .....	197,188	—	—	6,055	—	—	—	—	228	228
Algeria .....	—	—	—	4,633	—	—	—	—	—	—
Angola .....	10,320	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—
Ecuador .....	38,356	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—
Iraq .....	24,895	—	—	—	—	—	—	—	—	—
Kuwait .....	12,997	—	—	—	—	—	—	—	—	—
Libya .....	6,001	—	—	—	—	—	—	—	—	—
Nigeria .....	1,997	—	—	86	—	—	—	—	228	228
Qatar .....	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	95,579	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	1,995	—	—	1,336	—	—	—	—	—	—
Venezuela .....	2,102	—	—	—	—	—	—	—	—	—
Non-OPEC .....	175,912	10,862	2	18,311	—	1,848	1,848	951	4,925	5,876
Argentina .....	3,208	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—
Brazil .....	21,487	—	—	20	—	—	—	—	—	—
Brunei .....	4,189	—	—	—	—	—	—	—	—	—
Canada .....	65,936	10,308	2	1,903	—	345	345	—	1,373	1,373
China .....	—	—	—	—	—	—	—	—	157	157
Colombia .....	35,435	—	—	—	—	—	—	—	297	297
Finland .....	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	96	—	—	—	—	—	—
Indonesia .....	12,654	—	—	—	—	—	—	—	—	—
Japan .....	—	—	—	—	—	96	96	—	675	675
Korea, South .....	—	56	—	120	—	622	622	—	655	655
Malaysia .....	588	—	—	262	—	—	—	—	—	—
Mexico .....	14,201	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	233	—	48	48	438	313	751
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—
Papua New Guinea .....	—	—	—	—	—	—	—	—	—	—
Peru .....	262	56	—	1,307	—	—	—	—	—	—
Singapore .....	—	—	—	147	—	—	—	—	503	503
Sweden .....	—	—	—	—	—	—	—	47	—	47
Taiwan .....	—	—	—	—	—	3	3	—	725	725
United Kingdom .....	789	—	—	—	—	65	65	319	—	319
Vietnam .....	788	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—
Other .....	16,375	442	0	14,223	—	669	669	147	227	374
Total .....	373,100	10,862	2	24,366	—	1,848	1,848	951	5,153	6,104
Persian Gulf <sup>3</sup> .....	135,466	—	—	1,336	—	—	—	—	—	—

See footnotes at end of table.



**Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
<b>PAD District 4</b>											
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	-	-	-	19	-	-	458	-	-	-	458
Canada .....	-	-	-	19	-	-	458	-	-	-	458
Other .....	-	-	-	0	-	-	0	-	-	-	0
<b>Total</b> .....	-	-	-	19	-	-	458	-	-	-	458
<b>PAD District 5</b>											
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	-	-	339	223	3,333	-	3,006	-	186	-	3,192
Argentina .....	-	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	310	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-	-	-
Canada .....	-	-	-	130	-	-	1,945	-	186	-	2,131
China .....	-	-	-	-	-	-	365	-	-	-	365
Colombia .....	-	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-	-	-
Japan .....	-	-	-	-	-	-	63	-	-	-	63
Korea, South .....	-	-	-	93	-	-	331	-	-	-	331
Malaysia .....	-	-	-	-	-	-	241	-	-	-	241
Mexico .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea .....	-	-	-	-	-	-	-	-	-	-	-
Peru .....	-	-	-	-	-	-	-	-	-	-	-
Singapore .....	-	-	-	-	-	-	61	-	-	-	61
Sweden .....	-	-	-	-	-	-	-	-	-	-	-
Taiwan .....	-	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-	-
Other .....	-	-	29	0	3,333	-	0	-	0	-	0
<b>Total</b> .....	-	-	339	223	3,333	-	3,006	-	186	-	3,192
<b>Persian Gulf<sup>3</sup></b> .....	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2018**  
(Thousand Barrels) — Continued

Country of Origin						Residual Fuel Oil			
	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
	PAD District 4								
OPEC .....	—	—	—	71	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	71	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—
Non-OPEC .....	—	5	—	—	—	—	—	—	—
Canada .....	—	5	—	—	—	—	—	—	—
Other .....	—	0	—	0	—	—	—	—	—
Total .....	—	5	—	71	—	—	—	—	—
	PAD District 5								
OPEC .....	—	—	—	—	—	—	—	781	781
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	438	438
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	343	343
Non-OPEC .....	—	3	—	22,288	—	—	1,560	7,173	8,733
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—
Canada .....	—	3	—	78	—	—	1,560	747	2,307
China .....	—	—	—	3,518	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Japan .....	—	—	—	2,826	—	—	—	—	—
Korea, South .....	—	—	—	13,602	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	2,656	2,656
Netherlands .....	—	—	—	—	—	—	—	350	350
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Papua New Guinea .....	—	—	—	—	—	—	—	—	—
Peru .....	—	—	—	—	—	—	—	2,458	2,458
Singapore .....	—	—	—	1,429	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—
Taiwan .....	—	—	—	315	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Other .....	—	0	—	520	—	—	0	962	962
Total .....	—	3	—	22,288	—	—	1,560	7,954	9,514
Persian Gulf <sup>3</sup> .....	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2018**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks									Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
	PAD District 4											
OPEC .....	—	—	—	—	—	—	—	71	71	—	0	0
Algeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	71	71	—	0	0
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC .....	—	—	—	—	257	—	9	4,287	85,972	299	16	315
Canada .....	—	—	—	—	257	—	9	4,287	85,972	299	16	315
Other .....	—	—	—	—	0	—	0	0	0	0	0	0
Total .....	—	—	—	—	257	—	9	4,358	86,043	299	16	315
	PAD District 5											
OPEC .....	—	—	—	—	—	—	—	7,064	204,252	722	26	748
Algeria .....	—	—	—	—	—	—	—	4,633	4,633	—	17	17
Angola .....	—	—	—	—	—	—	—	—	10,320	38	—	38
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	438	38,794	140	2	142
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	24,895	91	—	91
Kuwait .....	—	—	—	—	—	—	—	—	12,997	48	—	48
Libya .....	—	—	—	—	—	—	—	—	6,001	22	—	22
Nigeria .....	—	—	—	—	—	—	—	314	2,311	7	1	8
Qatar .....	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	95,579	350	—	350
United Arab Emirates .....	—	—	—	—	—	—	—	1,336	3,331	7	5	12
Venezuela .....	—	—	—	—	—	—	—	343	2,445	8	1	9
Non-OPEC .....	340	—	299	233	964	89	—	76,935	252,847	644	282	926
Argentina .....	—	—	—	—	—	—	—	—	3,208	12	—	12
Aruba .....	—	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	330	21,817	79	1	80
Brunei .....	—	—	—	—	—	—	—	—	4,189	15	—	15
Canada .....	—	—	—	233	807	66	—	19,686	85,622	242	72	314
China .....	—	—	259	—	91	—	—	4,390	4,390	—	16	16
Colombia .....	—	—	—	—	—	—	—	297	35,732	130	1	131
Finland .....	—	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	96	96	—	0	0
Indonesia .....	—	—	—	—	—	—	—	—	12,654	46	—	46
Japan .....	—	—	38	—	—	—	—	3,698	3,698	—	14	14
Korea, South .....	—	—	—	—	66	23	—	15,568	15,568	—	57	57
Malaysia .....	—	—	2	—	—	—	—	505	1,093	2	2	4
Mexico .....	—	—	—	—	—	—	—	2,656	16,857	52	10	62
Netherlands .....	—	—	—	—	—	—	—	1,382	1,382	—	5	5
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—	—
Papua New Guinea .....	—	—	—	—	—	—	—	—	—	—	—	—
Peru .....	—	—	—	—	—	—	—	3,821	4,083	1	14	15
Singapore .....	—	—	—	—	—	—	—	5,473	5,473	—	20	20
Sweden .....	—	—	—	—	—	—	—	47	47	—	0	0
Taiwan .....	340	—	—	—	—	—	—	1,383	1,383	—	5	5
United Kingdom .....	—	—	—	—	—	—	—	384	1,173	3	1	4
Vietnam .....	—	—	—	—	—	—	—	—	788	3	—	3
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	—	0	0	0	0	—	17,219	33,594	59	64	123
Total .....	340	—	299	233	964	89	—	83,999	457,099	1,367	308	1,674
Persian Gulf <sup>3</sup> .....	—	—	—	—	—	—	—	1,336	136,802	496	5	501

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 49. Exports of Crude Oil and Petroleum Products by PAD District, September 2018**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1</sup></b> .....	<b>884</b>	<b>2,905</b>	<b>59,682</b>	<b>—</b>	<b>—</b>	<b>63,470</b>	<b>2,116</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>3,492</b>	<b>8,677</b>	<b>35,613</b>	<b>60</b>	<b>1,347</b>	<b>49,189</b>	<b>1,640</b>
Natural Gas Liquids .....	3,492	8,677	35,613	60	1,347	49,189	1,640
Ethane .....	1,405	3,103	3,978	—	1	8,487	283
Propane .....	1,640	38	23,788	1	868	26,334	878
Normal Butane .....	363	249	7,715	1	471	8,798	293
Isobutane .....	1	1	109	—	0	112	4
Natural Gasoline .....	84	5,286	23	58	8	5,459	182
Refinery Olefins .....	—	—	—	—	—	—	—
Ethylene .....	—	—	—	—	—	—	—
Propylene .....	—	—	—	—	—	—	—
Butylene .....	—	—	—	—	—	—	—
Isobutylene .....	—	—	—	—	—	—	—
<b>Other Liquids</b> .....	<b>469</b>	<b>3,161</b>	<b>14,627</b>	<b>11</b>	<b>378</b>	<b>18,646</b>	<b>622</b>
Hydrogen/Oxygenates/Renewables/							
Other Hydrocarbons .....	113	798	3,337	11	144	4,403	147
Hydrogen .....	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol) .....	1	1	2,069	—	1	2,072	69
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	1,412	—	—	1,412	47
Other Oxygenates .....	1	1	657	—	1	660	22
Renewable Fuels (including Fuel Ethanol) ...	112	797	1,269	11	143	2,331	78
Fuel Ethanol .....	108	730	1,233	11	58	2,141	71
Biomass-Based Diesel .....	4	66	35	0	85	190	6
Other Renewable Diesel .....	—	—	—	—	—	—	—
Other Renewable Fuels .....	—	—	—	—	—	—	—
Other Hydrocarbons .....	—	—	—	—	—	—	—
Unfinished Oils .....	29	2,349	8,623	0	29	11,030	368
Naphthas and Lighter .....	3	2,340	8,482	—	23	10,849	362
Kerosene and Light Gas Oils .....	25	9	141	0	6	182	6
Heavy Gas Oils .....	—	—	—	—	—	—	—
Residuum .....	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC) .....	328	13	2,666	0	205	3,213	107
Reformulated .....	1	—	5	—	2	8	0
Conventional .....	327	13	2,661	0	203	3,205	107
Aviation Gasoline Blend. Comp. ....	—	—	—	—	—	—	—
<b>Finished Petroleum Products</b> .....	<b>3,736</b>	<b>1,120</b>	<b>82,062</b>	<b>19</b>	<b>10,096</b>	<b>97,032</b>	<b>3,234</b>
Finished Motor Gasoline .....	234	171	23,140	—	2,166	25,711	857
Reformulated .....	—	—	—	—	—	—	—
Conventional .....	234	171	23,140	—	2,166	25,711	857
Finished Aviation Gasoline .....	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel .....	562	36	3,623	—	789	5,009	167
Kerosene .....	—	—	—	—	—	—	—
Distillate Fuel Oil .....	1,328	182	35,196	—	2,590	39,296	1,310
15 ppm sulfur and under .....	1,153	120	31,507	—	2,051	34,830	1,161
Greater than 15 ppm to 500 ppm sulfur .....	175	27	2,029	—	99	2,330	78
Greater than 500 ppm sulfur .....	0	36	1,660	—	440	2,136	71
Residual Fuel Oil .....	745	175	6,115	6	980	8,021	267
Naphtha for Petro. Feed. Use .....	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use .....	—	—	—	—	—	—	—
Special Naphthas .....	—	—	—	—	—	—	—
Lubricants .....	154	190	2,301	9	298	2,951	98
Waxes .....	70	40	36	1	4	151	5
Petroleum Coke .....	596	197	11,162	—	3,141	15,095	503
Asphalt and Road Oil .....	36	126	478	4	128	772	26
Miscellaneous Products .....	12	3	10	0	0	26	1
<b>Total</b> .....	<b>8,581</b>	<b>15,862</b>	<b>191,983</b>	<b>90</b>	<b>11,821</b>	<b>228,337</b>	<b>7,611</b>

— = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

**Table 50. Year-to-Date Exports of Crude Oil and Petroleum Products by PAD District, January-September 2018**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1</sup></b> .....	<b>8,988</b>	<b>31,538</b>	<b>459,743</b>	<b>130</b>	<b>2,786</b>	<b>503,185</b>	<b>1,843</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>25,344</b>	<b>80,023</b>	<b>317,871</b>	<b>685</b>	<b>12,492</b>	<b>436,415</b>	<b>1,599</b>
Natural Gas Liquids .....	25,344	80,023	317,871	685	12,492	436,415	1,599
Ethane .....	7,646	24,310	37,970	—	1	69,926	256
Propane .....	14,345	1,302	236,133	4	8,823	259,708	951
Normal Butane .....	2,701	3,167	43,166	89	3,591	52,520	192
Isobutane .....	9	4	1,433	—	3	1,443	5
Natural Gasoline .....	654	51,258	194	592	120	52,818	193
Refinery Olefins .....	—	—	—	—	—	—	—
Ethylene .....	—	—	—	—	—	—	—
Propylene .....	—	—	—	—	—	—	—
Butylene .....	—	—	—	—	—	—	—
Isobutylene .....	—	—	—	—	—	—	—
<b>Other Liquids</b> .....	<b>2,797</b>	<b>25,570</b>	<b>108,141</b>	<b>20</b>	<b>5,372</b>	<b>141,901</b>	<b>520</b>
Hydrogen/Oxygenates/Renewables/							
Other Hydrocarbons .....	926	6,571	41,226	12	1,937	50,673	186
Hydrogen .....	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol) .....	13	10	18,746	0	8	18,777	69
Methyl Tertiary Butyl Ether (MTBE) .....	0	0	10,249	—	0	10,250	38
Other Oxygenates .....	12	10	8,497	0	8	8,528	31
Renewable Fuels (including Fuel Ethanol) ...	914	6,561	22,480	12	1,929	31,895	117
Fuel Ethanol .....	834	5,629	22,084	11	1,291	29,848	109
Biomass-Based Diesel .....	80	932	396	1	638	2,047	7
Other Renewable Diesel .....	—	—	—	—	—	—	—
Other Renewable Fuels .....	—	—	—	—	—	—	—
Other Hydrocarbons .....	—	—	—	—	—	—	—
Unfinished Oils .....	329	18,615	55,171	7	773	74,896	274
Naphthas and Lighter .....	133	18,538	53,122	7	688	72,488	266
Kerosene and Light Gas Oils .....	197	76	2,049	1	85	2,408	9
Heavy Gas Oils .....	—	—	—	—	—	—	—
Residuum .....	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC) .....	1,542	384	11,744	0	2,662	16,332	60
Reformulated .....	17	1	103	—	18	140	1
Conventional .....	1,525	383	11,641	0	2,644	16,192	59
Aviation Gasoline Blend. Comp. ....	—	—	—	—	—	—	—
<b>Finished Petroleum Products</b> .....	<b>39,507</b>	<b>9,063</b>	<b>776,762</b>	<b>228</b>	<b>98,130</b>	<b>923,690</b>	<b>3,383</b>
Finished Motor Gasoline .....	1,337	1,814	208,638	10	17,149	228,948	839
Reformulated .....	—	—	—	—	—	—	—
Conventional .....	1,337	1,814	208,638	10	17,149	228,948	839
Finished Aviation Gasoline .....	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel .....	3,412	419	48,361	—	7,038	59,230	217
Kerosene .....	39	21	957	1	17	1,035	4
Distillate Fuel Oil .....	10,943	1,192	309,949	0	25,640	347,724	1,274
15 ppm sulfur and under .....	6,835	277	269,638	0	18,309	295,059	1,081
Greater than 15 ppm to 500 ppm sulfur .....	1,987	476	20,930	—	1,779	25,172	92
Greater than 500 ppm sulfur .....	2,121	439	19,382	—	5,552	27,493	101
Residual Fuel Oil .....	12,313	1,237	67,530	84	9,377	90,540	332
Naphtha for Petro. Feed. Use .....	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use .....	—	—	—	—	—	—	—
Special Naphthas .....	—	—	—	—	—	—	—
Lubricants .....	2,380	1,805	23,290	77	3,302	30,855	113
Waxes .....	605	287	212	3	51	1,158	4
Petroleum Coke .....	7,692	1,340	113,889	14	35,109	158,044	579
Asphalt and Road Oil .....	663	930	3,862	37	372	5,864	21
Miscellaneous Products .....	124	19	74	1	74	293	1
<b>Total</b> .....	<b>76,637</b>	<b>146,194</b>	<b>1,662,516</b>	<b>1,063</b>	<b>118,781</b>	<b>2,005,191</b>	<b>7,345</b>

— = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

**Table 51. Exports of Crude Oil and Petroleum Products by Destination, September 2018**  
(Thousand Barrels)

Destination	Crude Oil <sup>1</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina .....	—	0	—	7	—	132	132	0	—	0
Australia .....	—	3	—	0	—	0	0	0	—	0
Bahamas .....	115	20	—	0	—	44	44	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	0	—	628	—	—	—	—	0	0
Belize .....	—	—	—	—	—	50	50	—	—	—
Brazil .....	715	2,021	—	348	—	472	472	—	—	—
Canada .....	10,008	8,919	—	2,356	—	604	604	—	1,569	1,569
Cayman Islands .....	—	0	—	—	—	50	50	0	—	0
Chile .....	—	577	—	116	—	315	315	—	128	128
China .....	—	1,060	—	456	—	—	—	—	—	—
Colombia .....	508	21	—	1,429	—	699	699	—	0	0
Costa Rica .....	—	102	—	2	—	619	619	—	—	—
Denmark .....	734	—	—	—	—	—	—	—	—	—
Dominican Republic .....	—	1,188	—	0	—	357	357	—	0	0
Ecuador .....	—	1,501	—	0	—	790	790	—	263	263
Egypt .....	—	—	—	—	—	—	—	—	—	—
El Salvador .....	—	222	—	1	—	618	618	—	—	—
Finland .....	—	—	—	0	—	—	—	—	—	—
France .....	—	11	—	13	—	1	1	—	—	—
Germany .....	—	1	—	0	—	1	1	—	—	—
Ghana .....	—	—	—	—	—	—	—	—	—	—
Gibraltar .....	—	385	—	300	—	—	—	—	—	—
Greece .....	—	—	—	—	—	—	—	—	—	—
Guatemala .....	—	419	—	10	—	1,521	1,521	—	—	—
Honduras .....	—	—	—	—	—	470	470	—	—	—
Hong Kong .....	—	—	—	0	—	—	—	—	—	—
India .....	5,566	2,380	—	0	—	—	—	—	—	—
Indonesia .....	—	3,765	—	0	—	—	—	—	—	—
Ireland .....	1,134	—	—	—	—	—	—	—	—	—
Israel .....	—	—	—	—	—	0	0	—	—	—
Italy .....	3,046	—	—	—	—	—	—	—	—	—
Jamaica .....	—	153	—	—	—	107	107	—	—	—
Japan .....	4,537	10,433	—	786	—	0	0	2	—	2
Korea, South .....	8,742	1,929	—	279	—	876	876	0	—	0
Lebanon .....	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	3,685	—	693	—	15,524	15,524	5	64	69
Montenegro .....	—	—	—	—	—	—	—	—	—	—
Morocco .....	—	631	—	7	—	324	324	—	—	—
Mozambique .....	—	—	—	—	—	—	—	—	—	—
Netherlands .....	5,803	1,861	—	996	—	260	260	—	476	476
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—
New Zealand .....	—	—	—	—	—	—	—	0	—	0
Nicaragua .....	—	—	—	40	—	216	216	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	331	331
Norway .....	—	793	—	—	—	—	—	—	—	—
Pakistan .....	—	—	—	—	—	—	—	—	—	—
Panama .....	—	0	—	1	—	537	537	—	—	—
Peru .....	—	132	—	10	—	463	463	—	25	25
Philippines .....	—	—	—	0	—	—	—	—	—	—
Portugal .....	—	88	—	—	—	—	—	—	—	—
Puerto Rico .....	—	7	—	1	—	5	5	—	0	0
Romania .....	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	0	—	1	—	—	—	—	—	—
Serbia .....	—	—	—	—	—	—	—	—	—	—
Singapore .....	2,703	0	—	5	—	—	—	—	0	0
South Africa .....	—	—	—	—	—	9	9	—	—	—
Spain .....	2,109	1,655	—	—	—	—	—	—	—	—
Switzerland .....	—	—	—	—	—	—	—	—	—	—
Taiwan .....	7,265	573	—	730	—	—	—	—	—	—
Thailand .....	2,220	—	—	0	—	500	500	—	—	—
Trinidad and Tobago .....	—	—	—	6	—	—	—	—	—	—
Turkey .....	—	1,054	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	13	13	—	—	—
United Kingdom .....	7,310	1,475	—	0	—	1	1	—	0	0
Venezuela .....	—	1	—	1,804	—	1	1	0	351	351
Other .....	955	2,124	—	5	—	132	132	1	0	0
<b>Total .....</b>	<b>63,470</b>	<b>49,189</b>	<b>—</b>	<b>11,030</b>	<b>—</b>	<b>25,711</b>	<b>25,711</b>	<b>8</b>	<b>3,205</b>	<b>3,213</b>

See footnotes at end of table.

**Table 51. Exports of Crude Oil and Petroleum Products by Destination, September 2018**  
(Thousand Barrels) — Continued

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina .....	—	—	0	—	—	—	636	—	—	—	636
Australia .....	—	—	0	—	—	—	—	—	0	—	0
Bahamas .....	—	0	—	—	—	—	280	—	297	—	577
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	9	0	0	—	—	—	310	—	—	—	310
Belize .....	—	—	—	—	—	—	0	41	—	—	41
Brazil .....	—	0	127	—	—	—	5,760	—	—	—	5,760
Canada .....	—	0	834	148	—	—	120	125	71	—	315
Cayman Islands .....	—	—	—	—	—	—	51	—	—	—	51
Chile .....	217	—	1	—	—	—	3,106	—	—	—	3,106
China .....	—	0	0	0	—	—	2	—	—	—	2
Colombia .....	—	—	144	—	—	—	905	—	—	—	905
Costa Rica .....	—	0	0	—	—	—	778	—	—	—	778
Denmark .....	—	—	—	—	—	—	—	—	—	—	—
Dominican Republic .....	—	—	1	—	—	—	424	—	260	—	684
Ecuador .....	—	—	—	—	—	—	878	—	—	—	878
Egypt .....	0	—	—	—	—	—	—	—	—	—	—
El Salvador .....	—	—	—	—	—	—	296	119	—	—	415
Finland .....	—	—	—	—	—	—	—	—	—	—	—
France .....	—	0	—	—	—	—	1,432	—	—	—	1,432
Germany .....	—	0	0	—	—	—	152	—	—	—	152
Ghana .....	—	—	—	—	—	—	—	—	—	—	—
Gibraltar .....	—	—	—	—	—	—	110	—	—	—	110
Greece .....	—	—	—	—	—	—	—	—	—	—	—
Guatemala .....	—	0	0	—	—	—	492	335	—	—	828
Honduras .....	—	—	—	—	—	—	170	163	—	—	333
Hong Kong .....	—	0	—	—	—	—	—	—	—	—	—
India .....	—	0	0	0	—	—	—	—	—	—	—
Indonesia .....	—	—	0	—	—	—	—	—	—	—	—
Ireland .....	—	—	0	—	—	—	—	—	—	—	—
Israel .....	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	614	—	—	—	614
Jamaica .....	—	—	62	—	—	—	86	—	—	—	86
Japan .....	—	657	33	—	—	—	—	—	—	—	—
Korea, South .....	—	0	177	—	—	—	2	—	60	—	62
Lebanon .....	—	—	—	—	—	—	—	—	—	—	—
Mexico .....	926	0	34	0	—	—	8,811	6	41	—	8,858
Montenegro .....	—	—	—	—	—	—	—	—	—	—	—
Morocco .....	—	—	—	—	—	—	1,272	—	—	—	1,272
Mozambique .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands .....	—	0	273	13	—	—	1,578	468	280	—	2,327
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—
New Zealand .....	—	—	—	—	—	—	—	—	—	—	—
Nicaragua .....	—	—	—	—	—	—	0	197	195	—	392
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—
Pakistan .....	—	0	—	—	—	—	—	—	—	—	—
Panama .....	—	—	0	—	—	—	2,082	150	278	—	2,510
Peru .....	—	—	73	22	—	—	1,980	—	—	—	1,980
Philippines .....	—	0	26	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico .....	—	0	0	—	—	—	—	—	—	—	—
Romania .....	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	35	—	—	—	—	—	0	—	0
Serbia .....	—	—	—	—	—	—	—	—	—	—	—
Singapore .....	—	0	0	—	—	—	79	—	346	—	424
South Africa .....	—	—	0	—	—	—	—	—	—	—	—
Spain .....	—	—	—	—	—	—	152	—	—	—	152
Switzerland .....	—	—	—	4	—	—	63	—	—	—	63
Taiwan .....	—	0	0	—	—	—	—	—	—	—	—
Thailand .....	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	0	—	—	—	—	—	—	—	—
Turkey .....	—	—	—	—	—	—	0	—	—	—	0
United Arab Emirates .....	—	0	0	—	—	—	0	—	—	—	0
United Kingdom .....	—	0	0	—	—	—	309	—	—	—	309
Venezuela .....	260	—	—	—	—	—	567	—	—	—	567
Other .....	—	3	321	3	—	—	1,333	726	308	—	2,367
<b>Total .....</b>	<b>1,412</b>	<b>660</b>	<b>2,141</b>	<b>190</b>	<b>—</b>	<b>—</b>	<b>34,830</b>	<b>2,330</b>	<b>2,136</b>	<b>—</b>	<b>39,296</b>

See footnotes at end of table.



**Table 51. Exports of Crude Oil and Petroleum Products by Destination, September 2018**  
(Thousand Barrels) — Continued

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina .....	—	—	—	157	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	73	—	767	—	—
Bahrain .....	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—
Belize .....	—	—	—	9	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—
Canada .....	—	—	—	1,330	—	535	—	—
Cayman Islands .....	—	—	—	7	—	—	—	—
Chile .....	—	—	—	150	—	—	—	—
China .....	—	—	—	0	—	0	—	—
Colombia .....	—	—	—	—	—	0	—	—
Costa Rica .....	—	—	—	165	—	0	—	—
Denmark .....	—	—	—	—	—	—	—	—
Dominican Republic .....	—	—	—	126	—	—	—	—
Ecuador .....	—	—	—	—	—	213	—	—
Egypt .....	—	—	—	—	—	—	—	—
El Salvador .....	—	—	—	70	—	0	—	—
Finland .....	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—
Ghana .....	—	—	—	—	—	—	—	—
Gibraltar .....	—	—	—	—	—	180	—	—
Greece .....	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	115	—	25	—	—
Honduras .....	—	—	—	48	—	375	—	—
Hong Kong .....	—	—	—	0	—	0	—	—
India .....	—	—	—	—	—	0	—	—
Indonesia .....	—	—	—	—	—	—	—	—
Ireland .....	—	—	—	—	—	—	—	—
Israel .....	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—
Jamaica .....	—	—	—	80	—	586	—	—
Japan .....	—	—	—	0	—	—	—	—
Korea, South .....	—	—	—	—	—	96	—	—
Lebanon .....	—	—	—	—	—	382	—	—
Mexico .....	—	—	—	1,701	—	868	—	—
Montenegro .....	—	—	—	—	—	—	—	—
Morocco .....	—	—	—	—	—	—	—	—
Mozambique .....	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	5	—	593	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—
New Zealand .....	—	—	—	—	—	—	—	—
Nicaragua .....	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—
Pakistan .....	—	—	—	—	—	—	—	—
Panama .....	—	—	—	511	—	520	—	—
Peru .....	—	—	—	0	—	50	—	—
Philippines .....	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—
Puerto Rico .....	—	—	—	0	—	—	—	—
Romania .....	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—
Serbia .....	—	—	—	—	—	—	—	—
Singapore .....	—	—	—	—	—	2,578	—	—
South Africa .....	—	—	—	—	—	—	—	—
Spain .....	—	—	—	—	—	—	—	—
Switzerland .....	—	—	—	—	—	252	—	—
Taiwan .....	—	—	—	—	—	0	—	—
Thailand .....	—	—	—	—	—	0	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—
Turkey .....	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	1	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	3	—	0	—	—
Other .....	—	—	—	458	—	1	—	—
<b>Total .....</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>5,009</b>	<b>—</b>	<b>8,021</b>	<b>—</b>	<b>—</b>

See footnotes at end of table.

**Table 51. Exports of Crude Oil and Petroleum Products by Destination, September 2018**  
(Thousand Barrels) — Continued

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina .....	0	0	—	7	—	940	940	—	31	31
Australia .....	0	264	95	5	0	368	368	—	12	12
Bahamas .....	—	—	1	4	—	1,484	1,599	4	49	53
Bahrain .....	—	—	—	0	—	0	0	—	0	0
Belgium .....	0	74	0	431	0	1,453	1,453	—	48	48
Belize .....	—	—	—	1	—	101	101	—	3	3
Brazil .....	2	1,498	—	336	1	10,566	11,282	24	352	376
Canada .....	99	1,157	180	265	6	18,317	28,325	334	611	944
Cayman Islands .....	—	—	1	2	—	110	110	—	4	4
Chile .....	0	—	—	75	—	4,685	4,685	—	156	156
China .....	1	635	1	17	1	2,173	2,173	—	72	72
Colombia .....	0	0	0	61	0	3,259	3,767	17	109	126
Costa Rica .....	—	1	61	22	0	1,750	1,750	—	58	58
Denmark .....	—	170	—	0	—	170	903	24	6	30
Dominican Republic .....	0	—	42	15	—	2,413	2,413	—	80	80
Ecuador .....	0	179	0	421	—	4,246	4,246	—	142	142
Egypt .....	—	66	—	0	—	66	66	—	2	2
El Salvador .....	—	—	—	5	—	1,331	1,331	—	44	44
Finland .....	—	—	—	2	—	2	2	—	0	0
France .....	0	280	—	0	—	1,738	1,738	—	58	58
Germany .....	4	—	0	4	0	162	162	—	5	5
Ghana .....	—	—	—	0	—	0	0	—	0	0
Gibraltar .....	—	—	—	—	—	975	975	—	33	33
Greece .....	—	285	—	0	—	285	285	—	10	10
Guatemala .....	0	255	—	15	—	3,188	3,188	—	106	106
Honduras .....	0	277	—	8	—	1,510	1,510	—	50	50
Hong Kong .....	0	—	0	1	0	2	2	—	0	0
India .....	1	281	1	42	0	2,706	8,272	186	90	276
Indonesia .....	0	—	0	1	0	3,766	3,766	—	126	126
Ireland .....	0	—	—	—	0	0	1,134	38	0	38
Israel .....	0	303	—	1	—	304	304	—	10	10
Italy .....	0	581	0	3	—	1,198	4,244	102	40	141
Jamaica .....	—	—	—	3	0	1,078	1,078	—	36	36
Japan .....	13	1,058	0	18	4	13,004	17,541	151	433	585
Korea, South .....	0	0	0	26	0	3,446	12,188	291	115	406
Lebanon .....	—	124	—	1	—	507	507	—	17	17
Mexico .....	21	1,798	342	740	10	35,269	35,269	—	1,176	1,176
Montenegro .....	—	297	—	—	—	297	297	—	10	10
Morocco .....	—	462	—	0	—	2,697	2,697	—	90	90
Mozambique .....	—	55	—	—	—	55	55	—	2	2
Netherlands .....	3	144	1	107	0	7,059	12,862	193	235	429
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—
New Zealand .....	0	85	—	1	—	86	86	—	3	3
Nicaragua .....	—	—	—	3	—	651	651	—	22	22
Nigeria .....	—	—	0	1	—	331	331	—	11	11
Norway .....	—	112	—	0	—	905	905	—	30	30
Pakistan .....	0	—	—	0	0	0	0	—	0	0
Panama .....	—	—	—	11	—	4,090	4,090	—	136	136
Peru .....	0	—	0	73	0	2,829	2,829	—	94	94
Philippines .....	0	0	—	2	0	29	29	—	1	1
Portugal .....	—	179	—	—	—	267	267	—	9	9
Puerto Rico .....	0	—	—	10	—	24	24	—	1	1
Romania .....	—	—	—	0	—	0	0	—	0	0
Saudi Arabia .....	0	67	—	3	0	106	106	—	4	4
Serbia .....	—	—	—	—	—	—	—	—	—	—
Singapore .....	0	1	1	24	0	3,034	5,737	90	101	191
South Africa .....	0	2	—	49	—	60	60	—	2	2
Spain .....	0	464	—	2	—	2,272	4,382	70	76	146
Switzerland .....	—	—	—	0	—	318	318	—	11	11
Taiwan .....	0	0	1	3	0	1,307	8,573	242	44	286
Thailand .....	0	—	—	3	0	503	2,723	74	17	91
Trinidad and Tobago .....	—	—	—	18	—	24	24	—	1	1
Turkey .....	0	1,713	—	8	—	2,776	2,776	—	93	93
United Arab Emirates .....	—	110	1	46	—	171	171	—	6	6
United Kingdom .....	1	28	0	1	0	1,814	9,124	244	60	304
Venezuela .....	0	—	—	4	—	2,991	2,991	—	100	100
Other .....	6	2,090	44	50	4	7,599	8,552	32	253	284
<b>Total .....</b>	<b>151</b>	<b>15,095</b>	<b>772</b>	<b>2,951</b>	<b>26</b>	<b>164,867</b>	<b>228,337</b>	<b>2,116</b>	<b>5,496</b>	<b>7,611</b>

— = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

**Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-September 2018**  
(Thousand Barrels)

Destination	Crude Oil <sup>1</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina .....	305	0	—	1,421	—	2,262	2,262	0	0	0
Australia .....	133	2,298	—	2	—	1,216	1,216	1	0	1
Bahamas .....	595	1,053	—	0	—	2,393	2,393	0	0	1
Bahrain .....	—	—	—	0	—	6	6	—	—	—
Belgium .....	—	302	—	1,301	—	1	1	—	0	0
Belize .....	—	—	—	—	—	467	467	—	0	0
Brazil .....	4,457	18,048	—	4,559	—	8,259	8,259	0	243	243
Canada .....	94,061	82,288	—	18,927	—	8,221	8,221	—	7,628	7,628
Cayman Islands .....	—	161	—	0	—	299	299	0	—	0
Chile .....	—	8,560	—	1,226	—	2,087	2,087	1	256	257
China .....	80,060	25,447	—	1,860	—	62	62	—	—	—
Colombia .....	6,713	118	—	11,394	—	5,645	5,645	0	150	150
Costa Rica .....	—	1,126	—	20	—	4,310	4,310	0	1,448	1,448
Denmark .....	4,165	—	—	—	—	—	—	—	—	—
Dominican Republic .....	973	7,388	—	52	—	2,822	2,822	0	0	0
Ecuador .....	—	8,086	—	330	—	6,056	6,056	—	785	785
Egypt .....	—	3,065	—	0	—	—	—	—	—	—
El Salvador .....	—	2,217	—	3	—	3,278	3,278	—	0	0
Finland .....	—	—	—	1	—	0	0	0	—	0
France .....	4,549	2,314	—	189	—	3	3	—	1	1
Germany .....	—	2	—	25	—	2	2	—	0	0
Ghana .....	—	629	—	0	—	519	519	—	—	—
Gibraltar .....	—	797	—	629	—	—	—	—	159	159
Greece .....	589	0	—	—	—	—	—	—	—	—
Guatemala .....	—	3,931	—	19	—	8,857	8,857	0	1	1
Honduras .....	—	2,930	—	6	—	4,727	4,727	0	—	0
Hong Kong .....	2,385	588	—	2	—	3	3	—	0	0
India .....	30,882	20,428	—	1,452	—	0	0	1	0	1
Indonesia .....	—	12,047	—	19	—	1	1	—	—	—
Ireland .....	2,312	—	—	—	—	1	1	—	0	0
Israel .....	—	2	—	9	—	2	2	—	—	—
Italy .....	40,071	236	—	0	—	—	—	—	—	—
Jamaica .....	—	1,042	—	1	—	299	299	—	—	—
Japan .....	11,914	64,968	—	3,228	—	4	4	9	2	11
Korea, South .....	44,182	33,482	—	2,150	—	2,217	2,217	2	0	2
Lebanon .....	—	0	—	0	—	—	—	—	—	—
Mexico .....	—	36,236	—	2,772	—	136,149	136,149	108	2,865	2,973
Montenegro .....	—	—	—	—	—	—	—	—	—	—
Morocco .....	—	4,287	—	86	—	941	941	—	—	—
Mozambique .....	—	—	—	—	—	—	—	—	—	—
Netherlands .....	32,563	16,595	—	3,490	—	2,887	2,887	—	1,030	1,030
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—
New Zealand .....	—	—	—	0	—	0	0	0	—	0
Nicaragua .....	1,430	0	—	232	—	1,370	1,370	—	—	—
Nigeria .....	—	492	—	1	—	526	526	—	331	331
Norway .....	10,283	5,865	—	0	—	—	—	—	—	—
Pakistan .....	—	—	—	—	—	—	—	—	—	—
Panama .....	—	52	—	128	—	5,985	5,985	0	1	1
Peru .....	814	1,614	—	279	—	5,329	5,329	—	50	50
Philippines .....	—	1	—	3	—	7	7	—	—	—
Portugal .....	625	2,030	—	—	—	—	—	—	—	—
Puerto Rico .....	—	39	—	3	—	28	28	—	2	2
Romania .....	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	1	—	12	—	1	1	—	—	—
Serbia .....	—	—	—	—	—	—	—	—	—	—
Singapore .....	10,542	12,859	—	1,104	—	154	154	—	0	0
South Africa .....	2,064	1,077	—	0	—	1,624	1,624	—	—	—
Spain .....	7,079	7,608	—	0	—	—	—	—	—	—
Switzerland .....	1,594	3,360	—	304	—	134	134	—	—	—
Taiwan .....	29,839	5,864	—	2,796	—	1	1	—	0	0
Thailand .....	10,311	0	—	17	—	500	500	—	0	0
Trinidad and Tobago .....	—	2	—	35	—	1	1	—	—	—
Turkey .....	—	6,555	—	0	—	—	—	—	—	—
United Arab Emirates .....	10,035	1	—	723	—	18	18	—	—	—
United Kingdom .....	41,347	12,500	—	307	—	7	7	0	0	0
Venezuela .....	—	1,605	—	12,769	—	5,879	5,879	14	1,168	1,182
Other .....	16,313	14,219	—	1,010	—	3,388	3,388	4	72	75
<b>Total .....</b>	<b>503,185</b>	<b>436,415</b>	<b>—</b>	<b>74,896</b>	<b>—</b>	<b>228,948</b>	<b>228,948</b>	<b>140</b>	<b>16,192</b>	<b>16,332</b>

See footnotes at end of table.

**Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-September 2018**  
(Thousand Barrels) — Continued

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina .....	0	0	0	—	—	—	6,541	713	1,238	—	8,492
Australia .....	0	0	1	0	—	—	0	—	0	—	1
Bahamas .....	—	3	1	0	—	—	1,675	206	1,722	—	3,602
Bahrain .....	—	—	0	—	—	—	—	—	—	—	—
Belgium .....	69	0	0	—	—	—	2,425	201	402	—	3,028
Belize .....	—	—	—	0	—	—	58	284	64	—	407
Brazil .....	240	0	8,813	—	—	—	34,045	2,521	1,298	—	37,864
Canada .....	—	3	6,242	1,656	—	—	4,417	2,284	2,184	—	8,885
Cayman Islands .....	—	—	0	—	—	—	722	38	55	—	815
Chile .....	1,861	0	3	3	—	—	28,061	1,395	260	—	29,716
China .....	0	2	1,259	1	—	—	10	—	8	—	18
Colombia .....	—	0	876	—	—	—	3,312	1	0	—	3,313
Costa Rica .....	29	0	2	1	—	—	6,168	—	—	—	6,168
Denmark .....	—	—	0	—	—	—	—	—	—	—	—
Dominican Republic .....	—	0	6	—	—	—	2,520	515	1,346	—	4,381
Ecuador .....	—	0	0	—	—	—	8,361	1,111	1,048	—	10,521
Egypt .....	0	—	1	—	—	—	1	—	—	—	1
El Salvador .....	—	—	—	0	—	—	2,127	904	130	—	3,161
Finland .....	—	—	0	—	—	—	—	—	—	—	—
France .....	15	2	—	0	—	—	12,332	95	440	—	12,867
Germany .....	0	0	0	8	—	—	152	—	—	—	152
Ghana .....	—	—	—	—	—	—	—	—	—	—	—
Gibraltar .....	—	—	—	—	—	—	3,910	1,252	1,215	—	6,377
Greece .....	—	—	—	—	—	—	—	—	—	—	—
Guatemala .....	—	0	0	—	—	—	7,081	1,990	446	—	9,518
Honduras .....	—	—	0	—	—	—	1,740	2,008	947	—	4,696
Hong Kong .....	—	0	0	—	—	—	—	—	—	—	—
India .....	0	0	2,144	0	—	—	5	—	—	—	5
Indonesia .....	—	0	0	—	—	—	0	—	—	—	0
Ireland .....	—	0	0	—	—	—	—	—	—	—	—
Israel .....	—	0	6	—	—	—	5	—	—	—	5
Italy .....	—	0	0	—	—	—	967	248	—	—	1,216
Jamaica .....	—	—	318	—	—	—	2,522	180	305	—	3,007
Japan .....	—	8,500	53	0	—	—	4	—	0	—	5
Korea, South .....	0	1	1,447	—	—	—	11	—	414	—	425
Lebanon .....	—	0	—	—	—	—	614	—	—	—	614
Mexico .....	6,807	4	495	41	—	—	79,366	515	237	—	80,118
Montenegro .....	—	—	—	—	—	—	0	—	—	—	0
Morocco .....	—	—	—	—	—	—	4,492	—	—	—	4,492
Mozambique .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands .....	—	0	1,367	36	—	—	13,172	2,015	1,836	—	17,024
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—
New Zealand .....	—	0	0	—	—	—	1	—	—	—	1
Nicaragua .....	—	—	0	0	—	—	257	687	922	—	1,866
Nigeria .....	—	—	428	—	—	—	—	—	—	—	—
Norway .....	—	—	97	2	—	—	—	—	36	—	36
Pakistan .....	—	0	1	—	—	—	—	—	—	—	—
Panama .....	—	0	0	—	—	—	11,273	1,017	1,678	—	13,968
Peru .....	—	0	969	233	—	—	19,932	525	—	—	20,456
Philippines .....	—	0	1,231	—	—	—	0	—	—	—	0
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico .....	0	2	280	0	—	—	2	3	—	—	5
Romania .....	—	—	—	—	—	—	320	—	—	—	320
Saudi Arabia .....	—	0	311	—	—	—	1	—	0	—	1
Serbia .....	—	—	—	—	—	—	—	—	—	—	—
Singapore .....	0	4	449	3	—	—	2,759	114	2,981	—	5,854
South Africa .....	—	0	0	—	—	—	0	—	0	—	0
Spain .....	—	0	207	—	—	—	2,588	—	—	—	2,588
Switzerland .....	—	0	115	43	—	—	746	132	0	—	878
Taiwan .....	0	0	1	—	—	—	1	—	0	—	1
Thailand .....	—	0	0	0	—	—	1,218	—	0	—	1,218
Trinidad and Tobago .....	—	—	0	0	—	—	0	—	0	—	0
Turkey .....	—	1	—	—	—	—	2	—	—	—	2
United Arab Emirates .....	—	0	1,052	—	—	—	467	—	—	—	467
United Kingdom .....	—	0	25	—	—	—	9,124	1	62	—	9,187
Venezuela .....	1,228	0	—	—	—	—	8,604	171	496	—	9,271
Other .....	1	6	1,648	20	—	—	10,948	4,046	5,723	—	20,711
<b>Total .....</b>	<b>10,250</b>	<b>8,528</b>	<b>29,848</b>	<b>2,047</b>	<b>—</b>	<b>—</b>	<b>295,059</b>	<b>25,172</b>	<b>27,493</b>	<b>—</b>	<b>347,724</b>

See footnotes at end of table.

**Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-September 2018**  
(Thousand Barrels) — Continued

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina .....	130	—	—	942	—	957	—	—
Australia .....	0	—	—	—	—	—	—	—
Bahamas .....	0	—	—	582	—	5,599	—	—
Bahrain .....	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	0	—	—
Belize .....	0	—	—	177	—	—	—	—
Brazil .....	0	—	—	2,232	—	498	—	—
Canada .....	339	—	—	13,211	—	4,738	—	—
Cayman Islands .....	0	—	—	173	—	0	—	—
Chile .....	9	—	—	2,070	—	0	—	—
China .....	1	—	—	2	—	241	—	—
Colombia .....	1	—	—	61	—	1	—	—
Costa Rica .....	0	—	—	1,389	—	369	—	—
Denmark .....	—	—	—	75	—	0	—	—
Dominican Republic .....	0	—	—	1,495	—	391	—	—
Ecuador .....	—	—	—	8	—	2,344	—	—
Egypt .....	0	—	—	—	—	0	—	—
El Salvador .....	0	—	—	278	—	0	—	—
Finland .....	—	—	—	61	—	—	—	—
France .....	—	—	—	—	—	—	—	—
Germany .....	0	—	—	2	—	—	—	—
Ghana .....	—	—	—	—	—	—	—	—
Gibraltar .....	—	—	—	—	—	1,963	—	—
Greece .....	—	—	—	—	—	—	—	—
Guatemala .....	66	—	—	1,055	—	1,033	—	—
Honduras .....	0	—	—	543	—	2,186	—	—
Hong Kong .....	—	—	—	0	—	7	—	—
India .....	—	—	—	1	—	2	—	—
Indonesia .....	—	—	—	—	—	—	—	—
Ireland .....	—	—	—	—	—	—	—	—
Israel .....	—	—	—	1,436	—	0	—	—
Italy .....	—	—	—	—	—	—	—	—
Jamaica .....	0	—	—	910	—	3,919	—	—
Japan .....	0	—	—	0	—	0	—	—
Korea, South .....	0	—	—	0	—	376	—	—
Lebanon .....	—	—	—	1	—	4,188	—	—
Mexico .....	3	—	—	14,768	—	12,447	—	—
Montenegro .....	—	—	—	—	—	—	—	—
Morocco .....	—	—	—	—	—	210	—	—
Mozambique .....	—	—	—	—	—	—	—	—
Netherlands .....	101	—	—	1,797	—	8,422	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—
New Zealand .....	—	—	—	—	—	70	—	—
Nicaragua .....	100	—	—	117	—	—	—	—
Nigeria .....	—	—	—	593	—	—	—	—
Norway .....	121	—	—	60	—	—	—	—
Pakistan .....	—	—	—	—	—	—	—	—
Panama .....	0	—	—	4,764	—	7,166	—	—
Peru .....	71	—	—	1,484	—	161	—	—
Philippines .....	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—
Puerto Rico .....	0	—	—	4	—	1	—	—
Romania .....	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	600	—	—
Serbia .....	—	—	—	—	—	—	—	—
Singapore .....	0	—	—	0	—	22,740	—	—
South Africa .....	0	—	—	—	—	0	—	—
Spain .....	—	—	—	0	—	361	—	—
Switzerland .....	—	—	—	—	—	252	—	—
Taiwan .....	0	—	—	0	—	3	—	—
Thailand .....	—	—	—	—	—	0	—	—
Trinidad and Tobago .....	0	—	—	5	—	—	—	—
Turkey .....	—	—	—	—	—	—	—	—
United Arab Emirates .....	2	—	—	1	—	247	—	—
United Kingdom .....	0	—	—	3,538	—	2,751	—	—
Venezuela .....	—	—	—	76	—	1,290	—	—
Other .....	91	—	—	5,319	—	5,007	—	—
<b>Total .....</b>	<b>1,035</b>	<b>—</b>	<b>—</b>	<b>59,230</b>	<b>—</b>	<b>90,540</b>	<b>—</b>	<b>—</b>

See footnotes at end of table.

**Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-September 2018**  
(Thousand Barrels) — Continued

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina .....	2	562	228	772	0	15,767	16,072	1	58	59
Australia .....	3	2,154	95	145	4	5,919	6,051	0	22	22
Bahamas .....	—	—	18	35	0	13,287	13,882	2	49	51
Bahrain .....	0	—	—	12	—	18	18	—	0	0
Belgium .....	0	2,124	67	3,559	4	10,458	10,458	—	38	38
Belize .....	—	—	—	9	—	1,059	1,059	—	4	4
Brazil .....	10	12,558	1	2,770	6	96,101	100,558	16	352	368
Canada .....	807	6,491	1,623	2,527	55	163,643	257,704	345	599	944
Cayman Islands .....	—	—	10	11	—	1,468	1,468	—	5	5
Chile .....	3	1	230	705	0	46,732	46,732	—	171	171
China .....	25	15,771	18	295	10	45,013	125,073	293	165	458
Colombia .....	1	1	1	992	3	22,558	29,271	25	83	107
Costa Rica .....	2	363	526	170	0	15,925	15,925	—	58	58
Denmark .....	0	842	0	1	—	919	5,084	15	3	19
Dominican Republic .....	4	1,017	367	236	1	18,161	19,134	4	67	70
Ecuador .....	1	1,257	1	1,559	0	30,949	30,949	—	113	113
Egypt .....	—	3,492	0	69	—	6,629	6,629	—	24	24
El Salvador .....	0	387	0	208	—	9,532	9,532	—	35	35
Finland .....	0	267	0	6	—	336	336	—	1	1
France .....	2	2,269	—	443	—	18,103	22,652	17	66	83
Germany .....	18	29	6	427	1	673	673	—	2	2
Ghana .....	—	—	0	3	—	1,151	1,151	—	4	4
Gibraltar .....	—	—	—	26	—	9,951	9,951	—	36	36
Greece .....	0	4,076	—	25	—	4,100	4,689	2	15	17
Guatemala .....	2	2,062	0	179	—	26,723	26,723	—	98	98
Honduras .....	0	1,656	202	98	—	17,044	17,044	—	62	62
Hong Kong .....	1	249	0	20	2	872	3,257	9	3	12
India .....	17	12,066	12	1,206	2	37,335	68,218	113	137	250
Indonesia .....	1	0	9	153	1	12,231	12,231	—	45	45
Ireland .....	0	499	—	0	1	501	2,813	8	2	10
Israel .....	1	1,176	—	275	0	2,911	2,911	—	11	11
Italy .....	14	5,457	1	71	1	6,997	47,068	147	26	172
Jamaica .....	—	0	16	784	1	10,297	10,297	—	38	38
Japan .....	21	14,878	4	136	34	91,842	103,756	44	336	380
Korea, South .....	2	2,135	10	100	3	42,350	86,532	162	155	317
Lebanon .....	0	1,070	—	14	—	5,888	5,888	—	22	22
Mexico .....	168	19,541	1,717	7,504	140	321,886	321,886	—	1,179	1,179
Montenegro .....	—	473	—	—	—	473	473	—	2	2
Morocco .....	—	4,300	1	0	—	14,318	14,318	—	52	52
Mozambique .....	—	710	—	—	—	710	710	—	3	3
Netherlands .....	25	2,543	10	686	3	56,015	88,578	119	205	324
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—
New Zealand .....	0	393	1	8	—	474	474	—	2	2
Nicaragua .....	0	—	—	37	—	3,723	5,153	5	14	19
Nigeria .....	—	1	0	706	0	3,077	3,077	—	11	11
Norway .....	0	964	0	3	—	7,148	17,431	38	26	64
Pakistan .....	0	0	1	37	0	40	40	—	0	0
Panama .....	0	—	213	173	0	32,451	32,451	—	119	119
Peru .....	1	182	1	662	1	31,494	32,308	3	115	118
Philippines .....	1	1	—	15	2	1,261	1,261	—	5	5
Portugal .....	0	789	—	1	—	2,820	3,445	2	10	13
Puerto Rico .....	1	—	1	117	0	484	484	—	2	2
Romania .....	0	616	—	1	—	938	938	—	3	3
Saudi Arabia .....	1	266	0	38	2	1,234	1,234	—	5	5
Serbia .....	—	—	—	—	—	—	—	—	—	—
Singapore .....	1	311	6	867	0	44,353	54,895	39	162	201
South Africa .....	1	806	1	424	—	3,934	5,998	8	14	22
Spain .....	4	4,792	0	12	0	15,573	22,652	26	57	83
Switzerland .....	0	0	0	0	—	5,086	6,680	6	19	24
Taiwan .....	2	0	4	44	1	8,719	38,558	109	32	141
Thailand .....	1	482	3	33	2	2,256	12,567	38	8	46
Trinidad and Tobago .....	0	1	1	72	0	118	118	—	0	0
Turkey .....	0	17,856	1	122	—	24,537	24,537	—	90	90
United Arab Emirates .....	0	249	4	468	0	3,233	13,267	37	12	49
United Kingdom .....	3	1,151	2	10	1	29,481	70,828	151	108	259
Venezuela .....	0	131	—	69	0	33,500	33,500	—	123	123
Other .....	12	6,577	452	705	12	59,227	75,541	59	219	280
<b>Total .....</b>	<b>1,158</b>	<b>158,044</b>	<b>5,864</b>	<b>30,855</b>	<b>293</b>	<b>1,502,006</b>	<b>2,005,191</b>	<b>1,843</b>	<b>5,502</b>	<b>7,345</b>

— = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

**Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, September 2018**  
(Thousand Barrels per Day)

Country of Origin	Crude Oil <sup>1</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>2,673</b>	<b>-50</b>	<b>-</b>	<b>117</b>	<b>-</b>	<b>-14</b>	<b>-14</b>	<b>0</b>	<b>40</b>	<b>40</b>
Algeria .....	83	-	-	117	-	-	-	-	-	-
Angola .....	73	0	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-
Ecuador .....	172	-50	-	0	-	-26	-26	-	-9	-9
Equatorial Guinea .....	22	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	473	-	-	11	-	-	-	-	-	-
Kuwait .....	33	-	-	4	-	-	-	-	-	-
Libya .....	61	-	-	-	-	-	-	-	-	-
Nigeria .....	94	-	-	-	-	-	-	-	7	7
Qatar .....	-	-	-	-	-	0	0	-	-	-
Saudi Arabia .....	981	0	-	6	-	13	13	-	19	19
United Arab Emirates .....	32	-	-	32	-	0	0	-	-	-
Venezuela .....	650	0	-	-60	-	0	0	0	23	23
<b>Non-OPEC</b> .....	<b>2,800</b>	<b>-1,439</b>	<b>21</b>	<b>213</b>	<b>-</b>	<b>-750</b>	<b>-750</b>	<b>144</b>	<b>308</b>	<b>452</b>
Argentina .....	-	0	-	0	-	-4	-4	0	6	6
Aruba .....	-	-1	-	-	-	-2	-2	-	-	-
Australia .....	-	0	-	0	-	0	0	0	-	0
Bahamas .....	-4	-1	-	0	-	-1	-1	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-	-
Belgium .....	-	0	-	27	-	-	-	-	12	12
Brazil .....	-7	-67	-	2	-	-16	-16	-	32	32
Brunei .....	72	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-	-
Canada .....	3,145	-148	16	-22	-	-9	-9	74	-8	65
Chad .....	32	-	-	-	-	-	-	-	-	-
China .....	-	-35	-	-15	-	-	-	-	-	-
Colombia .....	170	-1	-	-48	-	-23	-23	-	22	22
Denmark .....	-24	-	-	6	-	-	-	-	1	1
Dominican Republic .....	-	-40	-	0	-	-12	-12	-	0	0
Estonia .....	-	-	-	0	-	0	0	-	-	-
Finland .....	-	-	-	2	-	-	-	-	43	43
France .....	-	0	-	0	-	10	10	20	11	30
Germany .....	-	0	-	3	-	0	0	-	2	2
Guatemala .....	10	-14	-	0	-	-51	-51	-	-	-
Honduras .....	-	-	-	-	-	-16	-16	-	-	-
India .....	-186	-79	-	1	-	9	9	-	12	12
Indonesia .....	45	-125	-	0	-	-	-	-	-	-
Italy .....	-102	-	-	21	-	-	-	-	22	22
Japan .....	-151	-348	-	-26	-	0	0	0	-	0
Korea, South .....	-291	-64	-	-9	-	-29	-29	0	-	0
Latvia .....	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	10	10
Malaysia .....	-15	-	-	0	-	-	-	-	-	-
Mexico .....	719	-123	1	-12	-	-517	-517	0	-2	-2
Netherlands .....	-193	-62	-	-29	-	2	2	4	9	13
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-
Norway .....	50	-26	-	-	-	9	9	-	14	14
Oman .....	-	0	-	0	-	-	-	-	-	-
Panama .....	-	0	-	0	-	-18	-18	-	-	-
Portugal .....	-	-3	-	-	-	9	9	9	19	28
Puerto Rico .....	-	0	-	0	-	0	0	-	0	0
Russia .....	123	-	-	322	-	-	-	-	17	17
Spain .....	-70	-55	-	3	-	-	-	-	22	22
Sweden .....	-	-11	-	-	-	-	-	-	1	1
Trinidad and Tobago .....	12	2	-	0	-	-	-	-	-	-
United Kingdom .....	-133	-49	-	1	-	21	21	38	34	72
Vietnam .....	-	-	-	-	-	0	0	-	-	-
Virgin Islands, U.S. ....	-	-10	-	-	-	0	0	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-
Other .....	-402	-179	4	-14	-	-112	-112	-1	29	30
<b>Total</b> .....	<b>5,473</b>	<b>-1,489</b>	<b>21</b>	<b>330</b>	<b>-</b>	<b>-763</b>	<b>-763</b>	<b>144</b>	<b>348</b>	<b>492</b>
<b>Persian Gulf<sup>2</sup></b> .....	<b>1,518</b>	<b>0</b>	<b>-</b>	<b>53</b>	<b>-</b>	<b>13</b>	<b>13</b>	<b>-</b>	<b>19</b>	<b>19</b>

See footnotes at end of table.

**Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, September 2018**  
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	-9	0	-1	-	-	-	-10	-	0	-	-10
Algeria .....	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-29	-	-	-	-29
Equatorial Guinea .....	-	-	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-1	-	-	-	25	-	0	-	25
United Arab Emirates .....	-	0	0	-	-	-	0	-	-	-	0
Venezuela .....	-9	-	-	-	-	-	-6	-	-	-	-6
<b>Non-OPEC</b> .....	-37	-20	-69	3	11	-	-994	-76	-58	1	-1,128
Argentina .....	-	-	0	-	-	-	-21	-	-	-	-21
Aruba .....	-	-	-	-	-	-	0	-	-	-	0
Australia .....	-	-	0	-	-	-	-	-	0	-	0
Bahamas .....	-	0	-	-	-	-	-9	-	-10	-	-19
Bahrain .....	-	-	-	-	-	-	-	-	-	-	-
Belgium .....	0	0	0	-	-	-	-10	-	-	-	-10
Brazil .....	1	2	-3	-	-	-	-192	-	-	-	-192
Brunei .....	-	-	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-	-	-
Canada .....	-	0	-28	0	-	-	80	-3	4	1	83
Chad .....	-	-	-	-	-	-	-	-	-	-	-
China .....	-	0	0	0	-	-	0	-	-	-	0
Colombia .....	-	-	-5	-	-	-	-21	-	-	-	-21
Denmark .....	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic .....	-	-	0	-	-	-	-14	-	-9	-	-23
Estonia .....	-	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-	-
France .....	-	0	-	-	-	-	-48	-	-	-	-48
Germany .....	-	0	0	5	-	-	-5	-	-	-	-5
Guatemala .....	-	0	0	-	-	-	-16	-11	-	-	-28
Honduras .....	-	-	-	-	-	-	-6	-5	-	-	-11
India .....	-	0	0	0	-	-	8	-	-	-	8
Indonesia .....	-	-	0	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-20	-	-	-	-20
Japan .....	-	-22	-1	-	-	-	-	-	-	-	-
Korea, South .....	-	0	-6	-	-	-	0	-	-2	-	-2
Latvia .....	-	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	-	-	-
Malaysia .....	-	0	-11	-	-	-	-	-	-	-	-
Mexico .....	-31	0	-1	0	-	-	-294	0	-1	-	-295
Netherlands .....	-	0	-9	0	-	-	-53	-16	-9	-	-78
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	0	-	-	-	0
Panama .....	-	-	0	-	-	-	-69	-5	-9	-	-84
Portugal .....	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico .....	-	0	0	-	-	-	-	-	-	-	-
Russia .....	-	0	0	-	-	-	16	-	6	-	23
Spain .....	-	-	-	-	-	-	-5	-	-	-	-5
Sweden .....	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	0	-	-	-	-	-	-	-	-
United Kingdom .....	-	0	0	-	-	-	-10	-	-	-	-10
Vietnam .....	-	0	-	-	-	-	0	-	-	-	0
Virgin Islands, U.S. ....	-	-	-	-	-	-	-11	-19	-10	-	-40
Yemen .....	-	-	-	-	-	-	-	-	-	-	-
Other .....	-7	0	-5	-2	11	-	-294	-17	-18	0	-330
<b>Total</b> .....	-46	-20	-70	3	11	-	-1,004	-76	-58	1	-1,138
<b>Persian Gulf<sup>2</sup></b> .....	-	0	-1	-	-	-	25	-	0	-	25

See footnotes at end of table.



**Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, September 2018**  
(Thousand Barrels per Day) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
<b>OPEC</b> .....	-	-	-	1	-	1	-	-
Algeria .....	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-7	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	1	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	0	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	0	-	-	-	-
Venezuela .....	-	-	-	0	-	8	-	-
<b>Non-OPEC</b> .....	-	0	-	13	12	-42	13	4
Argentina .....	-	-	-	-5	-	-	-	-
Aruba .....	-	-	-	-2	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-2	-	-26	-	-
Bahrain .....	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	-	-	-
Brazil .....	-	-	-	-	-	9	-	-
Brunei .....	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-
Canada .....	-	0	-	-31	4	30	3	3
Chad .....	-	-	-	-	-	-	-	-
China .....	-	-	-	22	-	0	-	-
Colombia .....	-	-	-	-	-	10	-	-
Denmark .....	-	-	-	-	-	-	-	-
Dominican Republic .....	-	-	-	-4	-	-	-	-
Estonia .....	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-
France .....	-	-	-	-	-	-	-	1
Germany .....	-	-	-	-	-	-	-	-
Guatemala .....	-	-	-	-4	-	-1	-	-
Honduras .....	-	-	-	-2	-	-12	-	-
India .....	-	-	-	0	-	0	-	-
Indonesia .....	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-	-
Japan .....	-	-	-	14	3	-	2	-
Korea, South .....	-	-	-	124	5	-3	-	-
Latvia .....	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	3	-	-
Malaysia .....	-	-	-	-	-	0	-	-
Mexico .....	-	-	-	-57	-	5	6	-
Netherlands .....	-	-	-	0	-	-20	-	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-
Panama .....	-	-	-	-17	-	-9	-	-
Portugal .....	-	-	-	-	-	-	-	-
Puerto Rico .....	-	-	-	0	-	-	-	-
Russia .....	-	-	-	-	-	35	-	-
Spain .....	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	-	-	39	-	-
United Kingdom .....	-	-	-	-	-	-	2	-
Vietnam .....	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-
Other .....	-	0	-	-23	0	-102	0	0
<b>Total</b> .....	-	0	-	14	12	-41	13	4
<b>Persian Gulf<sup>2</sup></b> .....	-	-	-	1	-	-	-	-

See footnotes at end of table.

**Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, September 2018**  
(Thousand Barrels per Day) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
<b>OPEC</b> .....	<b>0</b>	<b>-17</b>	<b>1</b>	<b>-4</b>	<b>0</b>	<b>57</b>	<b>2,729</b>
Algeria .....	—	—	—	—	—	117	200
Angola .....	—	—	—	0	—	0	73
Congo (Brazzaville) .....	—	—	—	—	—	—	—
Ecuador .....	0	-6	0	-14	—	-142	30
Equatorial Guinea .....	—	—	—	0	—	0	22
Gabon .....	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—
Iraq .....	—	—	—	0	—	12	485
Kuwait .....	—	0	0	0	—	4	36
Libya .....	—	—	—	0	—	0	61
Nigeria .....	—	—	0	0	—	7	101
Qatar .....	—	-5	—	10	—	5	5
Saudi Arabia .....	0	-2	—	0	0	59	1,040
United Arab Emirates .....	—	-4	0	1	—	29	61
Venezuela .....	<b>0</b>	<b>—</b>	<b>1</b>	<b>0</b>	<b>—</b>	<b>-43</b>	<b>608</b>
<b>Non-OPEC</b> .....	<b>3</b>	<b>-485</b>	<b>19</b>	<b>-50</b>	<b>-1</b>	<b>-3,256</b>	<b>-456</b>
Argentina .....	0	0	—	0	—	-25	-25
Aruba .....	—	—	—	0	—	-5	-5
Australia .....	0	-9	-3	0	0	-12	-12
Bahamas .....	—	—	0	0	—	-49	-53
Bahrain .....	—	—	—	4	—	4	4
Belgium .....	0	-2	0	-14	0	11	11
Brazil .....	0	-50	—	-11	0	-292	-299
Brunei .....	—	—	—	—	—	—	72
Cameroon .....	—	—	—	0	—	0	0
Canada .....	-2	-37	22	-2	0	-55	3,090
Chad .....	—	—	—	0	—	0	32
China .....	6	-21	0	-1	0	-45	-45
Colombia .....	0	0	0	-2	0	-67	103
Denmark .....	—	-6	—	0	—	1	-24
Dominican Republic .....	0	—	-1	0	—	-80	-80
Estonia .....	—	—	—	0	—	0	0
Finland .....	—	—	—	0	—	45	45
France .....	0	-9	—	1	—	-16	-16
Germany .....	0	—	0	0	0	4	4
Guatemala .....	0	-9	—	-1	—	-106	-97
Honduras .....	0	-9	—	0	—	-50	-50
India .....	0	-9	0	-1	0	-60	-245
Indonesia .....	0	—	0	0	0	-126	-81
Italy .....	0	-19	0	2	—	5	-96
Japan .....	0	-35	0	-1	0	-414	-565
Korea, South .....	0	0	2	14	0	32	-259
Latvia .....	—	—	—	0	—	0	0
Lithuania .....	—	—	—	0	—	13	13
Malaysia .....	0	0	0	0	—	-10	-25
Mexico .....	-1	-60	-11	-25	0	-1,124	-405
Netherlands .....	0	-5	0	-4	0	-191	-384
Netherlands Antilles .....	—	—	—	—	—	—	—
Norway .....	—	-4	—	0	—	-7	43
Oman .....	0	0	—	—	—	0	0
Panama .....	—	—	—	0	—	-128	-128
Portugal .....	—	-6	—	—	—	29	29
Puerto Rico .....	0	—	—	0	—	-1	-1
Russia .....	—	—	—	0	—	396	519
Spain .....	0	-15	12	0	—	-39	-109
Sweden .....	—	-1	—	0	—	-12	-12
Trinidad and Tobago .....	—	—	—	-1	—	40	52
United Kingdom .....	0	-1	0	0	0	35	-98
Vietnam .....	0	—	—	0	—	0	0
Virgin Islands, U.S. .....	—	—	0	0	—	-50	-50
Yemen .....	—	—	—	0	—	0	0
Other .....	<b>0</b>	<b>-178</b>	<b>-2</b>	<b>-8</b>	<b>-1</b>	<b>-907</b>	<b>-1,309</b>
<b>Total</b> .....	<b>3</b>	<b>-501</b>	<b>20</b>	<b>-54</b>	<b>-1</b>	<b>-3,200</b>	<b>2,273</b>
<b>Persian Gulf<sup>2</sup></b> .....	<b>0</b>	<b>-11</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>113</b>	<b>1,631</b>

— = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

<sup>2</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

**Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-September 2018**  
(Thousand Barrels per Day)

Country of Origin	Crude Oil <sup>1</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>2,628</b>	<b>-37</b>	<b>-</b>	<b>104</b>	<b>-</b>	<b>-44</b>	<b>-44</b>	<b>0</b>	<b>36</b>	<b>36</b>
Algeria .....	83	1	-	90	-	-	-	-	2	2
Angola .....	108	0	-	0	-	-	-	-	4	4
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-
Ecuador .....	179	-30	-	-1	-	-22	-22	-	-3	-3
Equatorial Guinea .....	22	-	-	-	-	-	-	-	-	-
Gabon .....	7	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	582	-	-	3	-	-	-	-	-	-
Kuwait .....	91	0	-	0	0	0	0	0	-	0
Libya .....	57	-	-	1	-	-	-	-	-	-
Nigeria .....	176	-2	-	3	-	-2	-2	-	11	11
Qatar .....	-	-	-	-3	-	0	0	0	-	0
Saudi Arabia .....	839	0	-	5	-	1	1	-	3	3
United Arab Emirates .....	-29	0	-	45	-	0	0	-	-	-
Venezuela .....	<b>506</b>	<b>-6</b>	<b>-</b>	<b>-44</b>	<b>-</b>	<b>-22</b>	<b>-22</b>	<b>0</b>	<b>19</b>	<b>19</b>
<b>Non-OPEC</b> .....	<b>3,440</b>	<b>-1,403</b>	<b>25</b>	<b>248</b>	<b>-</b>	<b>-746</b>	<b>-746</b>	<b>188</b>	<b>423</b>	<b>612</b>
Argentina .....	18	0	-	-5	-	-8	-8	0	3	3
Aruba .....	-	0	-	0	-	-2	-2	0	0	0
Australia .....	1	-8	-	0	-	-4	-4	0	0	0
Bahamas .....	-2	-4	-	0	-	-9	-9	0	0	0
Bahrain .....	-	-	-	0	-	0	0	-	-	-
Belgium .....	-	-1	-	36	-	1	1	5	20	26
Brazil .....	125	-66	-	-7	-	-30	-30	0	17	17
Brunei .....	15	-	-	-	-	-	-	-	-	-
Cameroon .....	4	-1	-	2	-	-	-	-	-	-
Canada .....	3,345	-148	20	-47	-	-18	-18	106	31	137
Chad .....	23	0	-	-	-	-	-	-	-	-
China .....	-293	-93	-	-7	-	0	0	-	1	1
Colombia .....	297	0	-	-40	-	-20	-20	0	16	16
Denmark .....	-12	-	-	7	-	-	-	0	0	1
Dominican Republic .....	-4	-27	-	0	-	-10	-10	0	0	0
Estonia .....	-	-	-	0	-	0	0	-	0	0
Finland .....	-	-	-	2	-	0	0	0	14	14
France .....	-17	-8	-	6	-	3	3	11	13	24
Germany .....	-	0	-	3	-	0	0	0	0	0
Guatemala .....	7	-14	-	0	-	-32	-32	0	0	0
Honduras .....	-	-11	-	0	-	-17	-17	0	-	0
India .....	-113	-75	-	-3	-	2	2	2	61	63
Indonesia .....	46	-44	-	0	-	0	0	-	-	-
Italy .....	-145	-1	-	12	-	2	2	0	9	10
Japan .....	-44	-238	-	-12	-	0	0	0	4	4
Korea, South .....	-162	-122	-	-7	-	-6	-6	0	8	8
Latvia .....	-	0	-	0	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	2	2
Malaysia .....	-13	0	-	1	-	0	0	0	0	0
Mexico .....	685	-133	1	-9	-	-499	-499	0	-3	-3
Netherlands .....	-119	-61	-	0	-	-6	-6	9	23	32
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-
Norway .....	5	-19	-	18	-	1	1	2	18	20
Oman .....	-	0	-	0	-	-	-	-	-	-
Panama .....	-	0	-	0	-	-22	-22	0	0	0
Portugal .....	-2	-7	-	-	-	4	4	5	26	31
Puerto Rico .....	-	0	-	0	-	0	0	-	0	0
Russia .....	73	0	-	258	-	1	1	1	39	40
Spain .....	-26	-28	-	10	-	1	1	0	44	44
Sweden .....	-	-9	-	1	-	4	4	0	5	6
Trinidad and Tobago .....	6	1	-	1	-	0	0	-	-	-
United Kingdom .....	-92	-45	-	2	-	4	4	45	36	81
Vietnam .....	3	0	-	0	-	0	0	-	0	0
Virgin Islands, U.S. .....	-	-4	-	0	-	0	0	-	0	0
Yemen .....	-	-	-	-	-	-	-	-	-	-
Other .....	<b>-169</b>	<b>-237</b>	<b>4</b>	<b>26</b>	<b>-</b>	<b>-86</b>	<b>-86</b>	<b>2</b>	<b>36</b>	<b>35</b>
<b>Total</b> .....	<b>6,068</b>	<b>-1,439</b>	<b>25</b>	<b>352</b>	<b>-</b>	<b>-790</b>	<b>-790</b>	<b>188</b>	<b>459</b>	<b>648</b>
<b>Persian Gulf<sup>2</sup></b> .....	1,483	0	-	51	-	1	1	0	3	3

See footnotes at end of table.

**Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-September 2018**  
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b>	-4	0	-7	-	-	-	-42	-7	-8	0	-56
Algeria	-	-	-	-	-	-	-2	-2	-3	-	-7
Angola	-	-	-	-	-	-	0	-	-	-	0
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	0	0	-	-	-	-31	-4	-4	-	-39
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	0	-	-	-	-	0	-	-	-	0
Kuwait	-	-	0	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	0	-	-	-	0
Nigeria	-	-	-2	-	-	-	-	-	1	-	1
Qatar	-	-	0	-	-	-	8	-	-	-	8
Saudi Arabia	-	0	-1	-	-	-	13	-	0	-	13
United Arab Emirates	-	0	-4	-	-	-	-2	-	-	-	-2
Venezuela	-4	0	-	-	-	-	-29	-1	-2	0	-31
<b>Non-OPEC</b>	-28	-27	-102	2	12	-	-895	-82	-74	2	-1,049
Argentina	0	0	0	-	-	-	-24	-3	-5	-	-31
Aruba	-	-	-	-	-	-	-1	-	-	-	-1
Australia	0	0	0	0	-	-	0	-	0	-	0
Bahamas	-	0	0	0	-	-	-6	-1	-6	-	-13
Bahrain	-	-	0	-	-	-	-	-	-	-	-
Belgium	0	0	0	-	-	-	-7	-1	-1	-	-9
Brazil	1	3	-31	-	-	-	-122	-9	-5	-	-136
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	0	-	-	-	-	-	-	-
Canada	-	0	-23	-1	-	-	65	-7	8	0	66
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	-5	0	-	-	1	-	0	-	1
Colombia	-	0	-3	-	-	-	-7	0	0	1	-6
Denmark	-	-	0	-	-	-	-	-	-	-	-
Dominican Republic	-	0	0	-	-	-	-9	-2	-5	-	-16
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	0	-	-	-	-	-	-	-	-
France	0	0	-	1	-	-	-45	0	-2	-	-47
Germany	0	0	0	3	-	-	-1	-	-	-	-1
Guatemala	-	0	0	-	-	-	-26	-7	-2	-	-35
Honduras	-	-	0	-	-	-	-6	-7	-3	-	-17
India	0	0	-8	0	-	-	9	-	-	-	9
Indonesia	-	0	0	-	-	-	0	-	-	-	0
Italy	-	0	0	-	-	-	-4	-1	-	-	-4
Japan	-	-31	0	0	-	-	0	-	0	-	0
Korea, South	0	0	-5	0	-	-	1	-	-2	-	0
Latvia	-	0	-	-	-	-	0	-	-	-	0
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	-3	-	-	-	1	-	-4	-	-3
Mexico	-25	0	-2	0	-	-	-290	-2	0	-	-291
Netherlands	1	1	-5	0	-	-	-46	-7	-7	0	-60
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	0	0	-	-	-	-	0	-	0
Oman	-	-	-2	-	-	-	1	-	-	-	1
Panama	-	0	0	-	-	-	-41	-4	-6	-	-51
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	0	0	-1	0	-	-	0	0	-	-	0
Russia	1	-	0	-	-	-	12	2	2	1	16
Spain	-	0	-1	-	-	-	-9	-	-	-	-9
Sweden	-	0	0	-	-	-	0	-	-	-	0
Trinidad and Tobago	-	-	0	0	-	-	0	-	0	-	0
United Kingdom	-	0	0	-	-	-	-33	0	0	-	-34
Vietnam	-	0	0	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	-	-	-	-	-4	-3	-5	-	-11
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-6	0	-13	-1	12	-	-304	-30	-31	0	-367
<b>Total</b>	<b>-32</b>	<b>-27</b>	<b>-108</b>	<b>2</b>	<b>12</b>	<b>-</b>	<b>-937</b>	<b>-89</b>	<b>-82</b>	<b>3</b>	<b>-1,105</b>
<b>Persian Gulf<sup>2</sup></b>	<b>-</b>	<b>0</b>	<b>-5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20</b>	<b>-</b>	<b>0</b>	<b>-</b>	<b>20</b>

See footnotes at end of table.

**Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-September 2018**  
(Thousand Barrels per Day) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
<b>OPEC</b> .....	0	-	-	5	0	33	2	-
Algeria .....	-	-	-	-	-	0	1	-
Angola .....	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	0	-	-7	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-
Gabon .....	0	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-
Iraq .....	0	-	-	0	-	-	-	-
Kuwait .....	-	-	-	1	-	-	-	-
Libya .....	-	-	-	-	-	1	-	-
Nigeria .....	-	-	-	-2	-	-	1	-
Qatar .....	0	-	-	0	-	0	-	-
Saudi Arabia .....	-	-	-	0	0	-2	-	-
United Arab Emirates .....	0	-	-	0	-	-1	-	-
Venezuela .....	-	-	-	7	-	42	-	-
<b>Non-OPEC</b> .....	-2	0	-	-89	14	-144	15	3
Argentina .....	0	-	-	-3	-	-2	-	0
Aruba .....	0	-	-	-2	-	-2	-	-
Australia .....	0	-	-	-	-	-	-	-
Bahamas .....	0	-	-	-2	-	-19	-	-
Bahrain .....	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	0	0	-	-
Brazil .....	0	-	-	-8	1	2	-	-
Brunei .....	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-
Canada .....	-1	0	-	-29	3	31	2	2
Chad .....	-	-	-	-	-	-	-	-
China .....	1	-	-	13	-	-1	-	-
Colombia .....	0	-	-	0	-	8	-	-
Denmark .....	-	-	-	0	-	0	-	-
Dominican Republic .....	0	-	-	-5	-	-1	-	-
Estonia .....	-	-	-	-	-	1	-	-
Finland .....	-	-	-	0	-	-	-	-
France .....	-	-	-	-	0	0	0	1
Germany .....	0	-	-	0	0	-	-	-
Guatemala .....	0	-	-	-4	-	-4	-	-
Honduras .....	0	-	-	-2	-	-8	-	-
India .....	-	-	-	7	0	0	-	-
Indonesia .....	-	-	-	-	-	-	-	-
Italy .....	-	-	-	0	-	-	-	-
Japan .....	0	-	-	11	2	0	3	-
Korea, South .....	1	-	-	66	6	-1	0	-
Latvia .....	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	0	-	0	-	-
Malaysia .....	-	-	-	-	-	0	-	-
Mexico .....	0	-	-	-54	0	-9	7	-
Netherlands .....	0	0	-	-7	0	-27	0	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-
Norway .....	0	-	-	0	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-
Panama .....	0	-	-	-17	-	-25	-	-
Portugal .....	-	-	-	-	0	-	-	-
Puerto Rico .....	0	-	-	0	-	0	-	-
Russia .....	-	-	-	0	-	20	-	-
Spain .....	-	-	-	0	-	0	-	-
Sweden .....	0	-	-	-	-	1	-	-
Trinidad and Tobago .....	0	-	-	0	-	21	-	-
United Kingdom .....	0	-	-	-13	-	-10	1	-
Vietnam .....	0	-	-	0	-	0	-	-
Virgin Islands, U.S. .....	0	-	-	-2	-	-12	-	-
Yemen .....	-	-	-	-	-	-	-	-
Other .....	-3	0	-	-38	2	-107	2	0
<b>Total</b> .....	-2	0	-	-84	15	-112	17	3
<b>Persian Gulf<sup>2</sup></b> .....	0	-	-	1	0	-3	-	-

See footnotes at end of table.

**Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-September 2018**  
(Thousand Barrels per Day) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
<b>OPEC</b> .....	<b>0</b>	<b>-8</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>28</b>	<b>2,656</b>
Algeria .....	0	0	0	0	—	88	171
Angola .....	—	—	0	0	—	4	112
Congo (Brazzaville) .....	—	—	—	—	—	—	—
Ecuador .....	0	-5	0	-6	0	-112	67
Equatorial Guinea .....	—	—	—	0	—	0	22
Gabon .....	—	—	0	0	—	0	7
Iran .....	—	—	—	0	—	0	0
Iraq .....	0	—	—	0	—	3	585
Kuwait .....	0	0	0	0	0	1	92
Libya .....	—	—	0	0	—	1	58
Nigeria .....	—	0	0	-3	0	5	181
Qatar .....	0	-1	—	10	—	13	13
Saudi Arabia .....	0	-1	0	0	0	19	858
United Arab Emirates .....	0	-1	0	1	0	39	10
Venezuela .....	0	0	3	0	0	-37	469
<b>Non-OPEC</b> .....	<b>1</b>	<b>-559</b>	<b>15</b>	<b>-72</b>	<b>-1</b>	<b>-3,274</b>	<b>166</b>
Argentina .....	0	1	-1	-3	0	-49	-31
Aruba .....	—	—	0	0	—	-9	-9
Australia .....	0	-8	0	-1	0	-22	-20
Bahamas .....	—	—	0	0	0	-47	-50
Bahrain .....	0	—	—	3	—	3	3
Belgium .....	0	-8	0	-13	0	33	33
Brazil .....	0	-45	0	-10	0	-311	-187
Brunei .....	—	0	—	0	—	0	15
Cameroon .....	—	—	0	0	—	1	5
Canada .....	-1	-21	26	-1	0	-3	3,341
Chad .....	—	—	—	0	—	0	23
China .....	2	-57	0	-1	0	-145	-439
Colombia .....	0	1	0	-4	0	-50	247
Denmark .....	0	-3	0	0	—	4	-8
Dominican Republic .....	0	-4	-1	-1	0	-67	-70
Estonia .....	—	—	—	0	—	2	2
Finland .....	0	-1	0	0	—	15	15
France .....	0	-8	—	-1	—	-29	-46
Germany .....	0	0	0	-1	0	4	4
Guatemala .....	0	-8	0	-1	—	-98	-91
Honduras .....	0	-6	-1	0	—	-62	-62
India .....	0	-44	0	-4	0	-53	-166
Indonesia .....	0	0	0	1	0	-43	4
Italy .....	0	-20	0	1	0	-1	-146
Japan .....	0	-54	0	0	0	-315	-359
Korea, South .....	0	-8	0	12	0	-56	-218
Latvia .....	0	—	—	0	0	0	0
Lithuania .....	0	—	—	0	—	3	3
Malaysia .....	0	-1	0	0	0	-5	-18
Mexico .....	-1	-72	-6	-27	-1	-1,123	-438
Netherlands .....	0	-9	0	-2	0	-142	-262
Netherlands Antilles .....	—	—	—	—	—	—	—
Norway .....	0	-4	0	0	—	15	21
Oman .....	0	1	0	0	—	-1	-1
Panama .....	0	—	-1	-1	0	-118	-118
Portugal .....	0	-3	—	0	—	25	23
Puerto Rico .....	0	—	0	0	0	-2	-2
Russia .....	0	1	0	0	—	339	412
Spain .....	0	-18	3	0	0	2	-24
Sweden .....	0	0	0	0	0	2	2
Trinidad and Tobago .....	0	0	0	0	0	24	29
United Kingdom .....	0	-4	0	1	0	-16	-108
Vietnam .....	0	0	0	0	0	0	3
Virgin Islands, U.S. .....	—	—	0	0	—	-30	-30
Yemen .....	—	—	—	0	—	0	0
Other .....	1	-157	-4	-19	0	-949	-1,116
<b>Total</b> .....	<b>1</b>	<b>-568</b>	<b>18</b>	<b>-70</b>	<b>-1</b>	<b>-3,246</b>	<b>2,823</b>
<b>Persian Gulf<sup>2</sup></b> .....	<b>0</b>	<b>-3</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>78</b>	<b>1,561</b>

— = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

<sup>2</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

**Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, September 2018**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
<b>Crude Oil</b> .....	<b>12,259</b>	<b>112,357</b>	<b>880,827</b>	<b>21,627</b>	<b>49,080</b>	<b>1,076,150</b>
Refinery .....	10,557	13,631	49,550	2,516	23,312	99,566
Tank Farms and Pipelines (Includes Cushing, OK) ....	1,702	98,726	171,268	19,111	21,915	312,722
Cushing, Oklahoma .....	—	26,102	—	—	—	26,102
Leases .....	—	—	—	—	—	—
Strategic Petroleum Reserve <sup>1</sup> .....	—	—	660,009	—	—	660,009
Alaskan In Transit .....	—	—	—	—	3,853	3,853
<b>Total Stocks, All Oils (excluding Crude Oil)<sup>2</sup></b> .....	<b>169,359</b>	<b>201,561</b>	<b>369,769</b>	<b>21,762</b>	<b>93,000</b>	<b>855,450</b>
Refinery .....	15,679	52,759	129,887	10,623	51,442	260,390
Bulk Terminal .....	124,457	110,522	186,400	6,895	35,978	464,251
Pipeline .....	28,938	36,149	51,495	4,093	4,949	125,624
Natural Gas Processing Plant .....	285	2,131	1,987	151	631	5,185
<b>Natural Gas Liquids</b> .....	<b>10,881</b>	<b>65,973</b>	<b>130,355</b>	<b>4,752</b>	<b>6,615</b>	<b>218,576</b>
Refinery .....	506	4,903	8,728	383	1,715	16,235
Bulk Terminal .....	9,112	44,179	104,499	2,167	4,260	164,217
Pipeline .....	978	14,760	15,141	2,051	9	32,939
Natural Gas Processing Plant .....	285	2,131	1,987	151	631	5,185
<b>Ethane</b> .....	<b>767</b>	<b>6,228</b>	<b>39,381</b>	<b>519</b>	—	<b>46,895</b>
Refinery .....	—	—	270	—	—	270
Bulk Terminal .....	581	3,001	33,722	—	—	37,304
Pipeline .....	186	2,951	5,293	518	—	8,948
Natural Gas Processing Plant .....	—	276	96	1	—	373
<b>Propane</b> .....	<b>7,523</b>	<b>27,151</b>	<b>36,644</b>	<b>1,569</b>	<b>2,260</b>	<b>75,147</b>
Refinery .....	99	1,846	927	62	107	3,041
Bulk Terminal .....	6,549	20,787	30,411	667	2,136	60,550
Pipeline .....	—	—	—	—	—	—
Natural Gas Processing Plant .....	140	1,053	254	62	8	1,517
<b>Normal Butane</b> .....	<b>2,209</b>	<b>21,025</b>	<b>37,179</b>	<b>2,086</b>	<b>3,752</b>	<b>66,251</b>
Refinery .....	295	2,348	5,609	244	1,093	9,589
Bulk Terminal .....	1,841	17,301	28,416	1,496	2,119	51,173
Pipeline .....	20	1,034	1,932	311	—	3,297
Natural Gas Processing Plant .....	53	342	1,222	35	540	2,192
<b>Isobutane</b> .....	<b>145</b>	<b>2,135</b>	<b>6,872</b>	<b>232</b>	<b>560</b>	<b>9,944</b>
Refinery .....	112	440	1,463	58	512	2,585
Bulk Terminal .....	—	833	4,343	—	—	5,176
Pipeline .....	18	600	864	162	—	1,644
Natural Gas Processing Plant .....	15	262	202	12	48	539
<b>Natural Gasoline</b> .....	<b>237</b>	<b>9,434</b>	<b>10,279</b>	<b>346</b>	<b>43</b>	<b>20,339</b>
Refinery .....	—	269	459	19	3	750
Bulk Terminal .....	141	2,257	7,607	4	5	10,014
Pipeline .....	19	6,710	2,000	282	—	9,011
Natural Gas Processing Plant .....	77	198	213	41	35	564
<b>Refinery Olefins</b> .....	<b>272</b>	<b>444</b>	<b>5,402</b>	<b>26</b>	<b>57</b>	<b>6,201</b>
Refinery .....	272	437	3,415	26	57	4,207
Bulk Terminal .....	—	7	1,987	—	—	1,994
Pipeline .....	—	—	—	—	—	—
Natural Gas Processing Plant .....	—	—	—	—	—	—
<b>Ethylene</b> .....	—	—	0	—	—	0
Refinery .....	—	—	0	—	—	0
Bulk Terminal .....	—	—	—	—	—	—
Pipeline .....	—	—	—	—	—	—
Natural Gas Processing Plant .....	—	—	—	—	—	—
<b>Propylene</b> .....	<b>106</b>	<b>353</b>	<b>3,402</b>	<b>1</b>	<b>12</b>	<b>3,874</b>
Refinery .....	106	346	1,415	1	12	1,880
Bulk Terminal .....	—	7	1,987	—	—	1,994
Pipeline .....	—	—	—	—	—	—
Natural Gas Processing Plant .....	—	—	—	—	—	—
<b>Butylene</b> .....	<b>107</b>	<b>39</b>	<b>2,000</b>	<b>25</b>	<b>45</b>	<b>2,216</b>
Refinery .....	107	39	2,000	25	45	2,216
Bulk Terminal .....	—	—	—	—	—	—
Pipeline .....	—	—	—	—	—	—
Natural Gas Processing Plant .....	—	—	—	—	—	—
<b>Isobutylene</b> .....	<b>59</b>	<b>52</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>111</b>
Refinery .....	59	52	0	0	0	111
Bulk Terminal .....	—	—	—	—	—	—
Pipeline .....	—	—	—	—	—	—
Natural Gas Processing Plant .....	—	—	—	—	—	—
<b>Other Hydrocarbons</b> .....	—	<b>25</b>	—	—	—	<b>25</b>
Refinery .....	—	25	—	—	—	25
<b>Oxygenates (excluding Fuel Ethanol)</b> .....	—	<b>5</b>	<b>1,497</b>	—	—	<b>1,502</b>
Refinery .....	—	—	—	—	—	—
Bulk Terminal .....	—	5	1,497	—	—	1,502
Pipeline .....	—	—	—	—	—	—

See footnotes at end of table.

**Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, September 2018**  
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
<b>MTBE</b> .....	—	—	1,082	—	—	1,082
Refinery .....	—	—	—	—	—	—
Bulk Terminal <sup>3</sup> .....	—	—	1,082	—	—	1,082
Pipeline .....	—	—	—	—	—	—
<b>Other Oxygenates<sup>4</sup></b> .....	—	5	415	—	—	420
Refinery .....	—	—	—	—	—	—
Bulk Terminal .....	—	5	415	—	—	420
Pipeline .....	—	—	—	—	—	—
<b>Renewable Fuels (including Fuel Ethanol)</b> .....	8,841	9,140	6,555	451	3,941	28,927
Refinery .....	150	137	373	182	201	1,043
Bulk Terminal .....	8,649	9,003	6,182	265	3,740	27,838
Pipeline .....	42	—	—	4	—	46
<b>Fuel Ethanol<sup>2</sup></b> .....	7,646	8,351	5,323	382	2,720	24,422
Refinery .....	143	99	207	117	31	597
Bulk Terminal .....	7,461	8,252	5,116	261	2,689	23,779
Pipeline .....	42	—	—	4	—	46
<b>Renewable Diesel Fuel<sup>5</sup></b> .....	1,195	789	1,232	69	1,178	4,462
Refinery .....	7	38	166	65	170	446
Bulk Terminal .....	1,188	751	1,066	4	1,008	4,016
Pipeline .....	—	—	—	—	—	—
<b>Other Renewable Fuels</b> .....	—	—	—	—	43	43
Refinery .....	—	—	—	—	—	—
Bulk Terminal .....	—	—	—	—	43	43
Pipeline .....	—	—	—	—	—	—
<b>Unfinished Oils</b> .....	6,916	14,699	47,054	3,309	19,977	91,955
<b>Naphthas and Lighter</b> .....	2,130	3,556	11,187	786	3,158	20,817
Refinery .....	1,297	3,510	10,155	786	2,746	18,494
Bulk Terminal .....	833	46	1,032	—	412	2,323
<b>Kerosene and Light Gas Oils</b> .....	573	2,485	8,777	601	3,713	16,149
Refinery .....	573	2,485	7,069	601	3,524	14,252
Bulk Terminal .....	—	—	1,708	—	189	1,897
<b>Heavy Gas Oils</b> .....	3,422	6,072	21,536	1,204	10,000	42,234
Refinery .....	2,629	5,697	19,544	1,204	9,860	38,934
Bulk Terminal .....	793	375	1,992	—	140	3,300
<b>Residuum</b> .....	791	2,586	5,554	718	3,106	12,755
Refinery .....	791	2,310	5,348	718	3,079	12,246
Bulk Terminal .....	—	276	206	—	27	509
<b>Motor Gasoline Blending Components<sup>2</sup></b> .....	64,506	46,404	72,079	5,366	26,502	214,857
Refinery .....	4,422	14,054	29,042	2,893	13,701	64,112
Bulk Terminal .....	49,020	23,551	26,028	1,628	10,374	110,601
Pipeline .....	11,064	8,799	17,009	845	2,427	40,144
<b>Reformulated - RBOB</b> .....	22,302	6,010	10,334	—	12,757	51,403
Refinery .....	1,372	1,068	1,412	—	5,313	9,165
Bulk Terminal .....	16,300	3,465	4,508	—	6,004	30,277
Pipeline .....	4,630	1,477	4,414	—	1,440	11,961
<b>Conventional</b> .....	42,204	40,394	61,745	5,366	13,745	163,454
Refinery .....	3,050	12,986	27,630	2,893	8,388	54,947
Bulk Terminal .....	32,720	20,086	21,520	1,628	4,370	80,324
Pipeline .....	6,434	7,322	12,595	845	987	28,183
<b>CBOB</b> .....	27,832	32,495	33,773	3,884	7,000	104,984
Refinery .....	611	6,088	11,957	1,414	2,229	22,299
Bulk Terminal .....	20,787	19,303	9,286	1,625	3,789	54,790
Pipeline .....	6,434	7,104	12,530	845	982	27,895
<b>GTAB</b> .....	1,833	—	—	—	—	1,833
Refinery .....	—	—	—	—	—	—
Bulk Terminal .....	1,833	—	—	—	—	1,833
Pipeline .....	—	—	—	—	—	—
<b>Other</b> .....	12,539	7,899	27,972	1,482	6,745	56,637
Refinery .....	2,439	6,898	15,673	1,479	6,159	32,648
Bulk Terminal .....	10,100	783	12,234	3	581	23,701
Pipeline .....	—	218	65	—	5	288
<b>Aviation Gasoline Blending Components</b> .....	—	—	30	—	—	30
Refinery .....	—	—	30	—	—	30
Bulk Terminal .....	—	—	—	—	—	—
<b>Finished Motor Gasoline</b> .....	5,698	6,688	8,469	1,608	2,338	24,801
Refinery .....	33	1,543	3,500	731	800	6,607
Bulk Terminal .....	2,623	2,638	3,233	589	1,410	10,493
Pipeline .....	3,042	2,507	1,736	288	128	7,701
<b>Reformulated</b> .....	32	—	—	—	20	52
Refinery .....	—	—	—	—	20	20
Bulk Terminal .....	32	—	—	—	—	32
Pipeline .....	—	—	—	—	—	—
<b>Reformulated (Blended with Fuel Ethanol)</b> .....	32	—	—	—	20	52
Refinery .....	—	—	—	—	20	20
Bulk Terminal .....	32	—	—	—	—	32
Pipeline .....	—	—	—	—	—	—

See footnotes at end of table.



**Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, September 2018**  
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
<b>Reformulated (Other)</b> .....	—	—	—	—	—	—
Refinery .....	—	—	—	—	—	—
Bulk Terminal .....	—	—	—	—	—	—
Pipeline .....	—	—	—	—	—	—
<b>Conventional</b> .....	<b>5,666</b>	<b>6,688</b>	<b>8,469</b>	<b>1,608</b>	<b>2,318</b>	<b>24,749</b>
Refinery .....	33	1,543	3,500	731	780	6,587
Bulk Terminal .....	2,591	2,638	3,233	589	1,410	10,461
Pipeline .....	3,042	2,507	1,736	288	128	7,701
<b>Conventional (Blended with Fuel Ethanol)</b> .....	<b>—</b>	<b>163</b>	<b>—</b>	<b>60</b>	<b>—</b>	<b>223</b>
Refinery .....	—	—	—	53	—	53
Bulk Terminal .....	—	163	—	7	—	170
Pipeline .....	—	—	—	—	—	—
<b>Ed55 and Lower</b> .....	<b>—</b>	<b>163</b>	<b>—</b>	<b>60</b>	<b>—</b>	<b>223</b>
Refinery .....	—	—	—	53	—	53
Bulk Terminal .....	—	163	—	7	—	170
Pipeline .....	—	—	—	—	—	—
<b>Greater than Ed55</b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
Refinery .....	—	—	—	—	—	—
Bulk Terminal .....	—	—	—	—	—	—
Pipeline .....	—	—	—	—	—	—
<b>Conventional (Other)</b> .....	<b>5,666</b>	<b>6,525</b>	<b>8,469</b>	<b>1,548</b>	<b>2,318</b>	<b>24,526</b>
Refinery .....	33	1,543	3,500	678	780	6,534
Bulk Terminal .....	2,591	2,475	3,233	582	1,410	10,291
Pipeline .....	3,042	2,507	1,736	288	128	7,701
<b>Finished Aviation Gasoline</b> .....	<b>148</b>	<b>172</b>	<b>452</b>	<b>10</b>	<b>232</b>	<b>1,014</b>
Refinery .....	—	90	391	10	140	631
Bulk Terminal .....	148	82	61	—	92	383
Pipeline .....	—	—	—	—	—	—
<b>Kerosene-Type Jet Fuel</b> .....	<b>11,699</b>	<b>7,882</b>	<b>16,175</b>	<b>715</b>	<b>10,420</b>	<b>46,891</b>
Refinery .....	587	1,859	6,185	301	4,287	13,219
Bulk Terminal .....	5,919	3,985	4,468	343	5,292	20,007
Pipeline .....	5,193	2,038	5,522	71	841	13,665
<b>Kerosene</b> .....	<b>2,124</b>	<b>162</b>	<b>225</b>	<b>1</b>	<b>2</b>	<b>2,514</b>
Refinery .....	174	158	100	1	1	434
Bulk Terminal .....	1,794	4	2	—	1	1,801
Pipeline .....	156	—	123	—	—	279
<b>Distillate Fuel Oil<sup>2</sup></b> .....	<b>43,582</b>	<b>34,984</b>	<b>41,529</b>	<b>3,841</b>	<b>13,124</b>	<b>137,060</b>
Refinery .....	2,097	6,886	14,621	1,590	5,561	30,755
Bulk Terminal .....	33,022	20,053	14,944	1,417	6,031	75,467
Pipeline .....	8,463	8,045	11,964	834	1,532	30,838
<b>15 ppm sulfur and Under</b> .....	<b>38,549</b>	<b>34,119</b>	<b>35,041</b>	<b>3,619</b>	<b>11,993</b>	<b>123,321</b>
Refinery .....	1,551	6,327	11,856	1,413	4,718	25,865
Bulk Terminal .....	29,433	19,898	12,303	1,374	5,916	68,924
Pipeline .....	7,565	7,894	10,882	832	1,359	28,532
<b>Greater than 15 ppm to 500 ppm sulfur</b> .....	<b>2,131</b>	<b>288</b>	<b>1,655</b>	<b>148</b>	<b>235</b>	<b>4,457</b>
Refinery .....	184	108	1,002	103	235	1,632
Bulk Terminal .....	1,870	41	444	43	—	2,398
Pipeline .....	77	139	209	2	—	427
<b>Greater than 500 ppm sulfur</b> .....	<b>2,902</b>	<b>577</b>	<b>4,833</b>	<b>74</b>	<b>896</b>	<b>9,282</b>
Refinery .....	362	451	1,763	74	608	3,258
Bulk Terminal .....	1,719	114	2,197	—	115	4,145
Pipeline .....	821	12	873	—	173	1,879
<b>Residual Fuel Oil<sup>6</sup></b> .....	<b>6,769</b>	<b>1,228</b>	<b>15,063</b>	<b>284</b>	<b>5,259</b>	<b>28,603</b>
Refinery .....	562	1,091	3,796	284	2,703	8,436
Bulk Terminal .....	6,207	137	11,267	—	2,548	20,159
Pipeline .....	—	—	—	—	8	8
<b>Less than 0.31% Sulfur</b> .....	<b>894</b>	<b>96</b>	<b>705</b>	<b>28</b>	<b>187</b>	<b>1,910</b>
Refinery .....	200	67	183	28	—	478
Bulk Terminal .....	694	29	522	—	187	1,432
<b>0.31% to 1.00% Sulfur</b> .....	<b>1,237</b>	<b>162</b>	<b>2,748</b>	<b>34</b>	<b>864</b>	<b>5,045</b>
Refinery .....	72	125	264	34	512	1,007
Bulk Terminal .....	1,165	37	2,484	—	352	4,038
<b>Greater than 1.00% Percent Sulfur</b> .....	<b>4,638</b>	<b>970</b>	<b>11,610</b>	<b>222</b>	<b>4,200</b>	<b>21,640</b>
Refinery .....	290	899	3,349	222	2,191	6,951
Bulk Terminal .....	4,348	71	8,261	—	2,009	14,689
<b>Petrochemical Feedstocks</b> .....	<b>102</b>	<b>577</b>	<b>2,782</b>	<b>—</b>	<b>3</b>	<b>3,464</b>
Refinery .....	102	577	2,782	—	3	3,464
Naphtha for Petrochemical Feedstock Use .....	102	421	1,852	—	3	2,378
Other Oils for Petrochemical Feedstock Use .....	—	156	930	—	—	1,086
<b>Special Naphthas</b> .....	<b>42</b>	<b>170</b>	<b>862</b>	<b>—</b>	<b>40</b>	<b>1,114</b>
Refinery .....	23	68	844	—	40	975
Bulk Terminal .....	19	102	18	—	—	139
<b>Lubricants</b> .....	<b>1,151</b>	<b>824</b>	<b>10,363</b>	<b>—</b>	<b>1,174</b>	<b>13,512</b>
Refinery .....	657	376	5,872	—	942	7,847
Bulk Terminal .....	494	448	4,491	—	232	5,665
<b>Waxes</b> .....	<b>373</b>	<b>57</b>	<b>253</b>	<b>—</b>	<b>—</b>	<b>683</b>
Refinery .....	373	57	253	—	—	683
<b>Petroleum Coke</b> .....	<b>—</b>	<b>1,546</b>	<b>5,076</b>	<b>114</b>	<b>1,494</b>	<b>8,230</b>
Refinery .....	—	1,546	5,076	114	1,494	8,230
<b>Asphalt and Road Oil</b> .....	<b>6,225</b>	<b>10,502</b>	<b>5,131</b>	<b>1,263</b>	<b>1,715</b>	<b>24,836</b>
Refinery .....	401	4,871	2,346	777	485	8,880
Bulk Terminal .....	5,824	5,631	2,785	486	1,230	15,956

**Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, September 2018**  
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
<b>Miscellaneous Products .....</b>	<b>30</b>	<b>79</b>	<b>417</b>	<b>22</b>	<b>107</b>	<b>655</b>
Refinery .....	30	79	417	22	103	651
Bulk Terminal .....	—	—	—	—	—	—
Pipeline .....	—	—	—	—	4	4
<b>Total Stocks, All Oils .....</b>	<b>181,618</b>	<b>313,918</b>	<b>1,250,596</b>	<b>43,389</b>	<b>142,080</b>	<b>1,931,600</b>

— = No Data Reported.

Lease stocks were excluded from crude oil stocks beginning with data for July 2016 (see explanatory notes).

<sup>1</sup> Crude oil stocks in the Strategic Petroleum Reserve include non-U.S. stocks held under foreign or commercial storage agreements.

<sup>2</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Includes stocks held at fuel ethanol production facilities.

<sup>3</sup> Includes stocks held by merchant producers.

<sup>4</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

<sup>5</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

<sup>6</sup> Sulfur content not available for stocks held by pipelines.

Note: Stocks are reported as of the last day of the month.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report."

**Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, September 2018**  
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components <sup>1</sup>			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
<b>PAD District 1</b> .....	<b>32</b>	<b>2,624</b>	<b>2,656</b>	<b>17,672</b>	<b>35,770</b>	<b>53,442</b>	<b>1,968</b>
Connecticut .....	—	—	—	1,139	92	1,231	69
Delaware .....	—	—	—	543	419	962	162
District of Columbia .....	—	—	—	—	—	—	—
Florida .....	—	735	735	—	6,714	6,714	—
Georgia .....	—	225	225	—	2,637	2,637	—
Maine .....	—	—	—	496	383	879	220
Maryland .....	—	—	—	1,277	437	1,714	83
Massachusetts .....	4	—	4	1,878	—	1,878	38
New Hampshire .....	—	—	—	—	—	—	2
New Jersey .....	—	1,033	1,033	7,455	12,626	20,081	416
New York .....	28	—	28	924	2,133	3,057	514
North Carolina .....	—	251	251	—	2,774	2,774	279
Pennsylvania .....	—	14	14	1,682	4,245	5,927	127
Rhode Island .....	—	—	—	726	—	726	—
South Carolina .....	—	143	143	—	1,802	1,802	18
Vermont .....	—	—	—	—	—	—	6
Virginia .....	—	193	193	1,552	1,416	2,968	34
West Virginia .....	—	30	30	—	92	92	—
<b>PAD District 2</b> .....	<b>—</b>	<b>4,181</b>	<b>4,181</b>	<b>4,533</b>	<b>33,072</b>	<b>37,605</b>	<b>162</b>
Illinois .....	—	341	341	2,243	4,980	7,223	147
Indiana .....	—	283	283	907	4,393	5,300	—
Iowa .....	—	167	167	—	1,383	1,383	—
Kansas .....	—	255	255	—	2,900	2,900	11
Kentucky .....	—	325	325	549	1,344	1,893	3
Michigan .....	—	245	245	16	3,125	3,141	—
Minnesota .....	—	355	355	82	2,318	2,400	—
Missouri .....	—	178	178	216	592	808	—
Nebraska .....	—	53	53	—	564	564	—
North Dakota .....	—	54	54	—	756	756	—
Ohio .....	—	964	964	18	4,176	4,194	1
Oklahoma .....	—	620	620	15	2,684	2,699	—
South Dakota .....	—	46	46	—	346	346	—
Tennessee .....	—	159	159	—	2,107	2,107	—
Wisconsin .....	—	136	136	487	1,404	1,891	—
<b>PAD District 3</b> .....	<b>—</b>	<b>6,733</b>	<b>6,733</b>	<b>5,920</b>	<b>49,150</b>	<b>55,070</b>	<b>102</b>
Alabama .....	—	215	215	—	1,372	1,372	7
Arkansas .....	—	153	153	37	598	635	—
Louisiana .....	—	1,411	1,411	160	12,882	13,042	66
Mississippi .....	—	1,438	1,438	5	1,852	1,857	—
New Mexico .....	—	122	122	—	575	575	—
Texas .....	—	3,394	3,394	5,718	31,871	37,589	29
<b>PAD District 4</b> .....	<b>—</b>	<b>1,320</b>	<b>1,320</b>	<b>—</b>	<b>4,521</b>	<b>4,521</b>	<b>1</b>
Colorado .....	—	202	202	—	1,188	1,188	—
Idaho .....	—	241	241	—	76	76	—
Montana .....	—	385	385	—	1,429	1,429	—
Utah .....	—	78	78	—	1,238	1,238	1
Wyoming .....	—	414	414	—	590	590	—
<b>PAD District 5</b> .....	<b>20</b>	<b>2,190</b>	<b>2,210</b>	<b>11,317</b>	<b>12,758</b>	<b>24,075</b>	<b>2</b>
Alaska .....	—	828	828	—	—	—	1
Arizona .....	—	76	76	483	425	908	—
California .....	20	301	321	10,765	6,442	17,207	1
Hawaii .....	—	1	1	—	1,005	1,005	—
Nevada .....	—	238	238	13	379	392	—
Oregon .....	—	151	151	—	1,164	1,164	—
Washington .....	—	595	595	56	3,343	3,399	—
<b>U.S. Total</b> .....	<b>52</b>	<b>17,048</b>	<b>17,100</b>	<b>39,442</b>	<b>135,271</b>	<b>174,713</b>	<b>2,235</b>

See footnotes at end of table.

**Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, September 2018**  
(Thousand Barrels) — Continued

Commodity	Distillate Fuel Oil <sup>1</sup>				Residual Fuel Oil	Propane
	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	Greater than 500 ppm	Total		
<b>PAD District 1</b> .....	<b>30,984</b>	<b>2,054</b>	<b>2,081</b>	<b>35,119</b>	<b>6,769</b>	<b>6,788</b>
Connecticut .....	2,659	733	37	3,429	18	—
Delaware .....	366	54	28	448	607	23
District of Columbia .....	—	—	—	—	—	—
Florida .....	2,572	148	—	2,720	993	139
Georgia .....	1,159	—	—	1,159	435	13
Maine .....	1,013	3	159	1,175	35	—
Maryland .....	1,397	182	—	1,579	133	4
Massachusetts .....	1,012	213	125	1,350	104	—
New Hampshire .....	415	—	36	451	4	301
New Jersey .....	8,528	58	662	9,248	3,320	58
New York .....	3,544	146	164	3,854	307	2,494
North Carolina .....	1,447	—	1	1,448	—	238
Pennsylvania .....	3,656	141	496	4,293	500	2,714
Rhode Island .....	444	198	—	642	—	—
South Carolina .....	796	—	—	796	204	720
Vermont .....	42	—	9	51	—	—
Virginia .....	1,805	170	364	2,339	109	6
West Virginia .....	129	8	—	137	—	78
<b>PAD District 2</b> .....	<b>26,225</b>	<b>149</b>	<b>565</b>	<b>26,939</b>	<b>1,228</b>	<b>23,686</b>
Illinois .....	3,611	—	—	3,611	326	905
Indiana .....	4,146	—	250	4,396	87	315
Iowa .....	2,187	—	—	2,187	—	599
Kansas .....	2,277	—	—	2,277	32	13,986
Kentucky .....	901	29	—	930	204	335
Michigan .....	1,392	—	—	1,392	189	5,783
Minnesota .....	1,868	—	54	1,922	109	387
Missouri .....	685	12	3	700	—	162
Nebraska .....	1,018	—	—	1,018	—	344
North Dakota .....	977	1	—	978	26	49
Ohio .....	2,479	—	127	2,606	90	734
Oklahoma .....	1,826	43	45	1,914	31	27
South Dakota .....	668	—	—	668	—	22
Tennessee .....	969	—	—	969	85	3
Wisconsin .....	1,221	64	86	1,371	49	35
<b>PAD District 3</b> .....	<b>24,159</b>	<b>1,446</b>	<b>3,960</b>	<b>29,565</b>	<b>15,063</b>	<b>31,592</b>
Alabama .....	1,048	6	29	1,083	277	35
Arkansas .....	917	—	49	966	—	29
Louisiana .....	4,230	868	1,374	6,472	7,238	1,530
Mississippi .....	862	333	152	1,347	237	3,352
New Mexico .....	369	—	—	369	59	5
Texas .....	16,733	239	2,356	19,328	7,252	26,641
<b>PAD District 4</b> .....	<b>2,787</b>	<b>146</b>	<b>74</b>	<b>3,007</b>	<b>284</b>	<b>791</b>
Colorado .....	632	—	—	632	34	28
Idaho .....	202	—	—	202	—	—
Montana .....	979	64	—	1,043	74	33
Utah .....	441	21	74	536	70	681
Wyoming .....	533	61	—	594	106	49
<b>PAD District 5</b> .....	<b>10,634</b>	<b>235</b>	<b>723</b>	<b>11,592</b>	<b>5,251</b>	<b>2,251</b>
Alaska .....	936	—	75	1,011	417	4
Arizona .....	320	—	—	320	—	1,465
California .....	5,624	235	274	6,133	3,166	569
Hawaii .....	257	—	368	625	701	56
Nevada .....	362	—	6	368	—	—
Oregon .....	1,127	—	—	1,127	7	—
Washington .....	2,008	—	—	2,008	960	157
<b>U.S. Total</b> .....	<b>94,789</b>	<b>4,030</b>	<b>7,403</b>	<b>106,222</b>	<b>28,595</b>	<b>65,108</b>

— = No Data Reported.

<sup>1</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Note: Stocks are reported as of the last day of the month.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report."

**Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail <sup>1</sup> Between PAD Districts, September 2018**  
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
<b>Crude Oil</b> .....	<b>462</b>	<b>285</b>	<b>0</b>	<b>3,000</b>	<b>54,995</b>	<b>6,526</b>	<b>4,402</b>	<b>3,839</b>	<b>25,270</b>
<b>Petroleum Products</b> .....	<b>17,492</b>	<b>227</b>	<b>0</b>	<b>17,518</b>	<b>34,046</b>	<b>7,463</b>	<b>5,371</b>	<b>103,841</b>	<b>24,802</b>
Natural Gas Liquids .....	7,819	111	0	3,466	22,042	3,700	426	1,184	7,163
Ethane .....	5,699	0	—	0	10,807	328	—	0	900
Propane .....	1,044	28	0	2,380	6,525	1,837	233	1,184	1,019
Normal Butane .....	441	83	0	790	2,669	818	151	0	300
Isobutane .....	397	0	0	296	787	293	42	0	449
Natural Gasoline .....	238	0	—	0	1,254	424	—	0	4,495
Refinery Olefins .....	0	0	—	286	626	—	—	0	0
Ethylene .....	—	—	—	—	—	—	—	—	—
Propylene .....	0	0	—	286	626	—	—	0	0
Butylene .....	—	—	—	—	—	—	—	—	—
Isobutylene .....	—	—	—	—	—	—	—	—	—
Unfinished Oils .....	0	41	—	0	1,097	—	—	0	469
Motor Gasoline Blending Components .....	6,565	0	0	1,114	1,667	1,554	0	55,027	7,872
Reformulated - RBOB .....	0	0	0	53	315	—	0	7,258	2,957
Conventional .....	6,565	0	0	1,061	1,352	1,554	0	47,769	4,915
CBOB .....	6,565	0	0	1,061	1,137	1,554	0	47,769	4,282
GTAB .....	—	—	—	—	—	—	—	—	—
Other .....	0	0	—	—	215	—	—	—	633
Renewable Fuels .....	0	0	0	9,882	6,008	283	4,819	388	0
Fuel Ethanol .....	0	0	0	9,678	5,790	264	4,482	388	0
Renewable Diesel Fuel <sup>2</sup> .....	0	0	0	204	218	20	337	0	0
Other Renewable Fuels .....	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline .....	95	0	0	426	182	183	0	7,357	1,189
Reformulated .....	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	—	—
Reformulated Other .....	—	—	—	—	—	—	—	—	—
Conventional .....	95	0	0	426	182	183	0	7,357	1,189
Conventional Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	—	—
Ed55 and Lower .....	—	—	—	—	—	—	—	—	—
Greater than Ed55 .....	—	—	—	—	—	—	—	—	—
Conventional Other .....	95	0	0	426	182	183	0	7,357	1,189
Finished Aviation Gasoline .....	—	0	—	0	0	—	—	22	—
Kerosene-Type Jet Fuel .....	286	0	0	93	55	786	0	14,621	1,998
Kerosene .....	—	0	—	0	0	—	—	304	—
Distillate Fuel Oil .....	2,727	0	0	1,011	987	856	0	24,022	5,585
15 ppm sulfur and under .....	2,727	0	0	1,011	987	856	0	23,098	5,413
Greater than 15 ppm to 500 ppm sulfur .....	0	0	—	—	0	—	—	—	172
Greater than 500 ppm sulfur .....	—	0	—	0	0	—	—	924	—
Residual Fuel Oil .....	0	75	—	0	853	—	—	0	0
Petrochemical Feedstocks .....	0	0	—	—	69	—	—	—	0
Naphtha for Petrochemical Feedstock Use .....	0	0	—	—	45	—	—	—	0
Other Oils for Petrochemical Feedstock Use .....	0	0	—	—	24	—	—	—	0
Special Naphthas .....	0	0	—	—	0	—	—	—	25
Lubricants .....	0	0	0	20	0	—	0	408	122
Waxes .....	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke .....	0	0	0	312	277	27	0	0	0
Asphalt and Road Oil .....	0	0	0	908	183	74	127	508	376
Miscellaneous Products .....	0	0	—	—	0	—	—	—	3
<b>Total</b> .....	<b>17,954</b>	<b>512</b>	<b>0</b>	<b>20,518</b>	<b>89,041</b>	<b>13,989</b>	<b>9,773</b>	<b>107,680</b>	<b>50,072</b>

See footnotes at end of table.

**Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail <sup>1</sup> Between PAD Districts, September 2018**  
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to		
	4	5	1	2	3	5	1	3	4
<b>Crude Oil</b> .....	0	175	0	22,845	360	46	0	0	0
<b>Petroleum Products</b> .....	0	4,906	0	9,707	8,008	1,854	0	117	20
Natural Gas Liquids .....	0	44	0	8,407	7,749	365	0	0	0
Ethane .....	0	—	0	1,646	2,596	—	0	0	0
Propane .....	0	0	0	3,499	2,556	289	0	0	0
Normal Butane .....	0	34	0	1,490	934	72	0	0	0
Isobutane .....	0	10	0	666	551	4	0	0	0
Natural Gasoline .....	0	—	0	1,106	1,112	—	0	0	0
Refinery Olefins .....	—	—	0	0	0	—	0	0	—
Ethylene .....	—	—	—	—	—	—	—	—	—
Propylene .....	—	—	0	0	0	—	0	0	—
Butylene .....	—	—	—	—	—	—	—	—	—
Isobutylene .....	—	—	—	—	—	—	—	—	—
Unfinished Oils .....	—	—	0	0	0	—	0	0	—
Motor Gasoline Blending Components .....	0	3,414	0	162	0	673	0	0	0
Reformulated - RBOB .....	—	2,128	0	0	0	0	0	0	—
Conventional .....	0	1,286	0	162	0	673	0	0	0
CBOB .....	0	1,286	0	162	0	673	0	0	0
GTAB .....	—	—	—	—	—	—	—	—	—
Other .....	—	—	—	0	0	—	—	0	—
Renewable Fuels .....	0	621	0	0	0	0	0	0	0
Fuel Ethanol .....	0	372	0	0	0	0	0	0	0
Renewable Diesel Fuel <sup>2</sup> .....	0	250	0	0	0	0	0	0	0
Other Renewable Fuels .....	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline .....	0	0	0	392	0	381	0	0	0
Reformulated .....	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	—	—
Reformulated Other .....	—	—	—	—	—	—	—	—	—
Conventional .....	0	0	0	392	0	381	0	0	0
Conventional Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	—	—
Ed55 and Lower .....	—	—	—	—	—	—	—	—	—
Greater than Ed55 .....	—	—	—	—	—	—	—	—	—
Conventional Other .....	0	0	0	392	0	381	0	0	0
Finished Aviation Gasoline .....	—	—	0	—	0	—	0	0	—
Kerosene-Type Jet Fuel .....	0	202	0	0	0	0	0	0	0
Kerosene .....	—	—	0	—	0	—	0	0	—
Distillate Fuel Oil .....	0	524	0	411	0	228	0	0	0
15 ppm sulfur and under .....	0	524	0	411	0	228	0	0	0
Greater than 15 ppm to 500 ppm sulfur .....	—	—	—	0	0	—	—	0	—
Greater than 500 ppm sulfur .....	—	—	0	—	0	—	0	0	—
Residual Fuel Oil .....	—	—	0	0	0	—	0	0	—
Petrochemical Feedstocks .....	—	—	—	0	0	—	—	0	—
Naphtha for Petrochemical Feedstock Use .....	—	—	—	0	0	—	—	0	—
Other Oils for Petrochemical Feedstock Use .....	—	—	—	0	0	—	—	0	—
Special Naphthas .....	—	—	—	0	0	—	—	0	—
Lubricants .....	—	0	0	0	0	0	0	92	—
Waxes .....	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke .....	0	0	0	218	22	0	0	25	0
Asphalt and Road Oil .....	0	101	0	117	237	207	0	0	20
Miscellaneous Products .....	—	—	—	0	0	—	—	0	—
<b>Total</b> .....	0	5,080	0	32,552	8,368	1,900	0	117	20

— = No Data Reported.

<sup>1</sup> Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.

<sup>2</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, September 2018**  
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
<b>Crude Oil</b> .....	<b>185</b>	<b>85</b>	<b>279</b>	<b>53,338</b>	<b>6,526</b>	<b>171</b>	<b>24,970</b>	<b>0</b>	<b>-</b>
<b>Petroleum Products</b> .....	<b>16,755</b>	<b>0</b>	<b>2,858</b>	<b>23,182</b>	<b>7,079</b>	<b>83,712</b>	<b>22,816</b>	<b>0</b>	<b>4,140</b>
Natural Gas Liquids .....	7,082	0	1,346	20,555	3,700	1,083	7,088	0	-
Ethane .....	5,699	0	0	10,807	328	0	900	0	-
Propane .....	777	0	1,346	5,292	1,837	1,083	1,004	0	-
Normal Butane .....	108	0	0	2,461	818	0	280	0	-
Isobutane .....	260	0	0	741	293	0	409	0	-
Natural Gasoline .....	238	0	0	1,254	424	0	4,495	0	-
Motor Gasoline Blending Components .....	6,565	0	497	1,452	1,554	45,127	7,614	0	3,414
Reformulated - RBOB .....	0	0	0	315	-	7,258	2,957	-	2,128
Conventional .....	6,565	0	497	1,137	1,554	37,869	4,657	0	1,286
CBOB .....	6,565	0	497	1,137	1,554	37,869	4,282	0	1,286
GTAB .....	-	-	-	-	-	-	-	-	-
Other .....	0	0	-	0	-	-	375	-	-
Renewable Fuels .....	-	-	-	-	-	-	-	-	-
Fuel Ethanol .....	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel <sup>1</sup> .....	-	-	-	-	-	-	-	-	-
Other Renewable Fuels .....	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline .....	95	0	403	133	183	3,264	880	0	0
Reformulated .....	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol .....	-	-	-	-	-	-	-	-	-
Reformulated Other .....	-	-	-	-	-	-	-	-	-
Conventional .....	95	0	403	133	183	3,264	880	0	0
Conventional Blended with Fuel Ethanol .....	-	-	-	-	-	-	-	-	-
Ed55 and Lower .....	-	-	-	-	-	-	-	-	-
Greater than Ed55 .....	-	-	-	-	-	-	-	-	-
Conventional Other .....	95	0	403	133	183	3,264	880	0	0
Finished Aviation Gasoline .....	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel .....	286	0	93	55	786	13,075	1,998	0	202
Kerosene .....	-	0	0	0	-	216	-	-	-
Distillate Fuel Oil .....	2,727	0	519	987	856	20,947	5,236	0	524
15 ppm sulfur and under .....	2,727	0	519	987	856	20,023	5,064	0	524
Greater than 15 ppm to 500 ppm sulfur .....	0	0	-	0	-	-	172	-	-
Greater than 500 ppm sulfur .....	-	0	0	0	-	924	-	-	-
Residual Fuel Oil .....	-	-	-	-	-	-	-	-	-
Miscellaneous Products .....	-	-	-	-	-	-	-	-	-
<b>Total</b> .....	<b>16,940</b>	<b>85</b>	<b>3,137</b>	<b>76,520</b>	<b>13,605</b>	<b>83,883</b>	<b>47,786</b>	<b>0</b>	<b>4,140</b>

See footnotes at end of table.

**Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, September 2018**  
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
<b>Crude Oil</b> .....	<b>0</b>	<b>22,845</b>	<b>360</b>	<b>—</b>	<b>0</b>	<b>0</b>
<b>Petroleum Products</b> .....	<b>0</b>	<b>9,372</b>	<b>7,749</b>	<b>1,282</b>	<b>0</b>	<b>0</b>
Natural Gas Liquids .....	0	8,407	7,749	—	0	0
Ethane .....	0	1,646	2,596	—	0	0
Propane .....	0	3,499	2,556	—	0	0
Normal Butane .....	0	1,490	934	—	0	0
Isobutane .....	0	666	551	—	0	0
Natural Gasoline .....	0	1,106	1,112	—	0	0
Motor Gasoline Blending Components .....	0	162	0	673	0	0
Reformulated - RBOB .....	0	0	0	0	0	—
Conventional .....	0	162	0	673	0	0
CBOB .....	0	162	0	673	0	0
GTAB .....	—	—	—	—	—	—
Other .....	—	0	0	—	0	—
Renewable Fuels .....	—	—	—	—	—	—
Fuel Ethanol .....	—	—	—	—	—	—
Renewable Diesel Fuel <sup>1</sup> .....	—	—	—	—	—	—
Other Renewable Fuels .....	—	—	—	—	—	—
Finished Motor Gasoline .....	0	392	0	381	0	0
Reformulated .....	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—
Reformulated Other .....	—	—	—	—	—	—
Conventional .....	0	392	0	381	0	0
Conventional Blended with Fuel Ethanol .....	—	—	—	—	—	—
Ed55 and Lower .....	—	—	—	—	—	—
Greater than Ed55 .....	—	—	—	—	—	—
Conventional Other .....	0	392	0	381	0	0
Finished Aviation Gasoline .....	—	—	—	—	—	—
Kerosene-Type Jet Fuel .....	0	0	0	0	0	0
Kerosene .....	0	—	0	—	0	—
Distillate Fuel Oil .....	0	411	0	228	0	0
15 ppm sulfur and under .....	0	411	0	228	0	0
Greater than 15 ppm to 500 ppm sulfur .....	—	0	0	—	0	—
Greater than 500 ppm sulfur .....	0	—	0	—	0	—
Residual Fuel Oil .....	—	—	—	—	—	—
Miscellaneous Products .....	—	—	—	—	—	—
<b>Total</b> .....	<b>0</b>	<b>32,217</b>	<b>8,109</b>	<b>1,282</b>	<b>0</b>	<b>0</b>

— = No Data Reported.

<sup>1</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report."



**Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, September 2018**  
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
<b>Crude Oil</b> .....	<b>277</b>	<b>200</b>	<b>—</b>	<b>323</b>	<b>1,505</b>	<b>—</b>
<b>Petroleum Products</b> .....	<b>0</b>	<b>116</b>	<b>0</b>	<b>1,387</b>	<b>3,300</b>	<b>0</b>
Natural Gas Liquids .....	—	0	—	0	0	—
Ethane .....	—	—	—	—	—	—
Propane .....	—	0	—	0	0	—
Normal Butane .....	—	—	—	—	—	—
Isobutane .....	—	—	—	—	—	—
Natural Gasoline .....	—	—	—	—	—	—
Unfinished Oils .....	0	41	—	0	1,097	—
Motor Gasoline Blending Components .....	0	0	—	617	215	—
Reformulated - RBOB .....	0	—	—	53	—	—
Conventional .....	0	0	—	564	215	—
CBOB .....	0	0	—	564	0	—
GTAB .....	—	—	—	—	—	—
Other .....	0	0	—	—	215	—
Renewable Fuels .....	0	0	0	152	997	0
Fuel Ethanol .....	0	0	—	152	997	—
Renewable Diesel Fuel <sup>1</sup> .....	—	0	0	—	0	0
Other Renewable Fuels .....	—	—	—	—	—	—
Finished Motor Gasoline .....	0	0	—	23	49	—
Reformulated .....	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—
Reformulated Other .....	—	—	—	—	—	—
Conventional .....	0	0	—	23	49	—
Conventional Blended with Fuel Ethanol .....	—	—	—	—	—	—
Ed55 and Lower .....	—	—	—	—	—	—
Greater than Ed55 .....	—	—	—	—	—	—
Conventional Other .....	0	0	—	23	49	—
Finished Aviation Gasoline .....	—	0	—	0	0	—
Kerosene-Type Jet Fuel .....	—	0	—	0	0	—
Kerosene .....	—	0	—	0	0	—
Distillate Fuel Oil .....	0	0	—	492	0	—
15 ppm sulfur and under .....	0	0	—	492	0	—
Greater than 15 ppm to 500 ppm sulfur .....	—	—	—	—	—	—
Greater than 500 ppm sulfur .....	—	—	—	—	—	—
Residual Fuel Oil .....	0	75	—	0	853	—
Less than 0.31 percent sulfur .....	0	0	—	—	63	—
0.31 to 1.00 percent sulfur .....	—	—	—	—	—	—
Greater than 1.00 percent sulfur .....	0	75	—	0	790	—
Petrochemical Feedstocks .....	0	0	—	—	69	—
Naphtha for Petrochemical Feedstock Use .....	0	0	—	—	45	—
Other Oils for Petrochemical Feedstock Use .....	0	0	—	—	24	—
Special Naphthas .....	0	0	—	—	0	—
Lubricants .....	0	0	0	20	0	0
Waxes .....	—	—	—	—	—	—
Marketable Petroleum Coke .....	—	—	—	—	—	—
Asphalt and Road Oil .....	0	0	—	83	20	—
Miscellaneous Products .....	0	0	—	—	0	—
<b>Total</b> .....	<b>277</b>	<b>316</b>	<b>0</b>	<b>1,710</b>	<b>4,805</b>	<b>0</b>

See footnotes at end of table.

**Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, September 2018**  
(Thousand Barrels) — Continued

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
<b>Crude Oil</b> .....	<b>3,668</b>	—	<b>3,668</b>	—	<b>300</b>	—	<b>0</b>	<b>0</b>	<b>0</b>
<b>Petroleum Products</b> .....	<b>19,880</b>	—	<b>226</b>	<b>19,654</b>	<b>1,806</b>	<b>151</b>	<b>0</b>	<b>0</b>	<b>92</b>
Natural Gas Liquids .....	21	—	—	21	—	—	0	—	0
Ethane .....	—	—	—	—	—	—	—	—	—
Propane .....	21	—	—	21	—	—	0	—	0
Normal Butane .....	—	—	—	—	—	—	—	—	—
Isobutane .....	—	—	—	—	—	—	—	—	—
Natural Gasoline .....	—	—	—	—	—	—	—	—	—
Unfinished Oils .....	0	—	—	—	469	—	0	0	0
Motor Gasoline Blending Components .....	9,900	—	—	9,900	258	—	0	0	0
Reformulated - RBOB .....	0	—	—	—	0	—	0	0	—
Conventional .....	9,900	—	—	9,900	258	—	0	0	0
CBOB .....	9,900	—	—	9,900	0	—	0	0	0
GTAB .....	—	—	—	—	—	—	—	—	—
Other .....	—	—	—	—	258	—	—	0	0
Renewable Fuels .....	388	—	—	388	0	151	0	0	0
Fuel Ethanol .....	388	—	—	388	0	—	0	0	0
Renewable Diesel Fuel <sup>1</sup> .....	—	—	—	—	—	151	—	—	0
Other Renewable Fuels .....	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline .....	4,093	—	—	4,093	309	—	0	0	0
Reformulated .....	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	—	—
Reformulated Other .....	—	—	—	—	—	—	—	—	—
Conventional .....	4,093	—	—	4,093	309	—	0	0	0
Conventional Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	—	—
Ed55 and Lower .....	—	—	—	—	—	—	—	—	—
Greater than Ed55 .....	—	—	—	—	—	—	—	—	—
Conventional Other .....	4,093	—	—	4,093	309	—	0	0	0
Finished Aviation Gasoline .....	22	—	—	22	—	—	0	—	0
Kerosene-Type Jet Fuel .....	1,546	—	—	1,546	—	—	0	—	0
Kerosene .....	88	—	88	—	—	—	0	—	0
Distillate Fuel Oil .....	3,075	—	—	3,075	349	—	0	0	0
15 ppm sulfur and under .....	3,075	—	—	3,075	349	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur .....	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur .....	—	—	—	—	—	—	—	—	—
Residual Fuel Oil .....	0	—	—	—	0	—	0	0	0
Less than 0.31 percent sulfur .....	—	—	—	—	0	—	—	0	0
0.31 to 1.00 percent sulfur .....	—	—	—	—	—	—	—	—	—
Greater than 1.00 percent sulfur .....	0	—	—	—	0	—	0	0	0
Petrochemical Feedstocks .....	—	—	—	—	0	—	—	0	0
Naphtha for Petrochemical Feedstock Use .....	—	—	—	—	0	—	—	0	0
Other Oils for Petrochemical Feedstock Use .....	—	—	—	—	0	—	—	0	0
Special Naphthas .....	—	—	—	—	25	—	—	0	0
Lubricants .....	408	—	138	270	122	0	0	0	92
Waxes .....	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke .....	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil .....	339	—	—	339	271	—	0	0	0
Miscellaneous Products .....	—	—	—	—	3	—	—	0	0
<b>Total</b> .....	<b>23,548</b>	—	<b>3,894</b>	<b>19,654</b>	<b>2,106</b>	<b>151</b>	<b>0</b>	<b>0</b>	<b>92</b>

— = No Data Reported.

<sup>1</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Form EIA-817, "Monthly Tanker and Barge Movements Report."

**Table 60. Movements of Crude Oil and Selected Products by Rail Between PAD Districts, September 2018**  
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil .....	0	0	0	0	2,398	152	0	4,402
Propane .....	267	28	0	0	1,034	1,233	0	233
Propylene .....	0	0	–	–	286	626	–	–
Normal Butane .....	333	83	0	0	790	208	0	151
Isobutane .....	137	0	0	0	296	46	0	42
Fuel Ethanol .....	0	0	0	0	9,526	4,793	264	4,482
Biodiesel .....	0	0	0	0	204	218	20	337
Marketable Petroleum Coke .....	0	0	0	0	312	277	27	0
Asphalt and Road Oil .....	0	0	0	0	825	163	74	127

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil .....	0	0	0	175	0	0	0	46
Propane .....	80	15	0	0	0	0	0	289
Propylene .....	0	0	–	–	0	0	0	–
Normal Butane .....	0	20	0	34	0	0	0	72
Isobutane .....	0	40	0	10	0	0	0	4
Fuel Ethanol .....	0	0	0	372	0	0	0	0
Biodiesel .....	0	0	0	99	0	0	0	0
Marketable Petroleum Coke .....	0	0	0	0	0	218	22	0
Asphalt and Road Oil .....	169	105	0	101	0	117	237	207

Commodity	From 5 to			
	1	2	3	4
Crude Oil .....	0	0	0	0
Propane .....	0	0	0	0
Propylene .....	0	0	0	–
Normal Butane .....	0	0	0	0
Isobutane .....	0	0	0	0
Fuel Ethanol .....	0	0	0	0
Biodiesel .....	0	0	0	0
Marketable Petroleum Coke .....	0	25	25	0
Asphalt and Road Oil .....	0	0	0	20

– = No Data Reported.

Source: Rail Movements are estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 61. Movements of Crude Oil by Pipeline, Tanker, Barge and Rail between PAD Districts, September 2018**  
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
<b>From 1 to</b>				
2 .....	185	277	0	462
3 .....	85	200	0	285
4 .....	0	—	0	0
5 .....	—	—	0	0
<b>From 2 to</b>				
1 .....	279	323	2,398	3,000
3 .....	53,338	1,505	152	54,995
4 .....	6,526	—	0	6,526
5 .....	—	—	4,402	4,402
<b>From 3 to</b>				
1 .....	171	3,668	0	3,839
2 .....	24,970	300	0	25,270
4 .....	0	—	0	0
5 .....	—	—	175	175
<b>From 4 to</b>				
1 .....	0	0	0	0
2 .....	22,845	0	0	22,845
3 .....	360	0	0	360
5 .....	—	—	46	46
<b>From 5 to</b>				
1 .....	0	0	0	0
2 .....	0	0	0	0
3 .....	0	0	0	0
4 .....	0	—	0	0

— = No Data Reported.

Sources: Energy Information Administration (EIA) Forms EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail <sup>1</sup> Between PAD Districts, September 2018**  
(Thousand Barrels)

Commodity	PAD District 1			PAD District 2			PAD District 3		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
<b>Crude Oil</b>	<b>6,839</b>	<b>747</b>	<b>6,092</b>	<b>48,577</b>	<b>68,922</b>	<b>-20,345</b>	<b>55,640</b>	<b>29,284</b>	<b>26,356</b>
<b>Petroleum Products</b>	<b>121,359</b>	<b>17,719</b>	<b>103,640</b>	<b>52,026</b>	<b>64,398</b>	<b>-12,372</b>	<b>42,397</b>	<b>133,549</b>	<b>-91,152</b>
Natural Gas Liquids	4,650	7,930	-3,280	23,389	29,634	-6,245	29,902	8,391	21,511
Ethane	0	5,699	-5,699	8,245	11,135	-2,890	13,403	900	12,503
Propane	3,564	1,072	2,492	5,562	10,975	-5,413	9,109	2,203	6,906
Normal Butane	790	524	266	2,231	4,428	-2,197	3,686	334	3,352
Isobutane	296	397	-101	1,512	1,418	94	1,338	459	879
Natural Gasoline	0	238	-238	5,839	1,678	4,161	2,366	4,495	-2,129
Refinery Olefins	286	0	286	0	912	-912	626	0	626
Ethylene	0	0	-	-	-	-	0	0	-
Propylene	286	0	286	0	912	-912	626	0	626
Butylene	0	0	-	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-	0	0	-
Unfinished Oils	0	41	-41	469	1,097	-628	1,138	469	669
Motor Gasoline Blending Components	56,141	6,565	49,576	14,599	4,335	10,264	1,667	66,313	-64,646
Reformulated - RBOB	7,311	0	7,311	2,957	368	2,589	315	12,343	-12,028
Conventional	48,830	6,565	42,265	11,642	3,967	7,675	1,352	53,970	-52,618
CBOB	48,830	6,565	42,265	11,009	3,752	7,257	1,137	53,337	-52,200
GTAB	0	0	-	-	-	-	0	0	-
Other	0	0	-	633	215	418	215	633	-418
Renewable Fuels	10,270	0	10,270	0	20,991	-20,991	6,008	1,009	4,999
Fuel Ethanol	10,066	0	10,066	0	20,213	-20,213	5,790	760	5,030
Renewable Diesel Fuel <sup>2</sup>	204	0	204	0	778	-778	218	250	-32
Other Renewable Fuels	-	-	-	-	-	-	0	0	-
Finished Motor Gasoline	7,783	95	7,688	1,676	791	885	182	8,546	-8,364
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	7,783	95	7,688	1,676	791	885	182	8,546	-8,364
Conventional Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Ed55 and Lower	0	0	-	0	0	-	0	0	-
Greater than Ed55	0	0	-	0	0	-	0	0	-
Conventional Other	7,783	95	7,688	1,676	791	885	182	8,546	-8,364
Finished Aviation Gasoline	22	0	22	0	0	-	0	22	-22
Kerosene-Type Jet Fuel	14,714	286	14,428	2,284	934	1,350	55	16,821	-16,766
Kerosene	304	0	304	0	0	-	0	304	-304
Distillate Fuel Oil	25,033	2,727	22,306	8,723	2,854	5,869	987	30,131	-29,144
15 ppm sulfur and under	24,109	2,727	21,382	8,551	2,854	5,697	987	29,035	-28,048
Greater than 15 ppm to 500 ppm sulfur	0	0	-	172	0	172	0	172	-172
Greater than 500 ppm sulfur	924	0	924	0	0	-	0	924	-924
Residual Fuel Oil	0	75	-75	0	853	-853	928	0	928
Petrochemical Feedstocks	0	0	-	0	69	-69	69	0	69
Naphtha for Petrochemical Feedstock Use	0	0	-	0	45	-45	45	0	45
Other Oils for Petrochemical Feedstock Use	-	-	-	0	24	-24	24	0	24
Special Naphthas	0	0	-	25	0	25	0	25	-25
Lubricants	428	0	428	122	20	102	92	530	-438
Waxes	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke	312	0	312	243	616	-374	324	0	324
Asphalt and Road Oil	1,417	0	1,417	493	1,292	-799	419	985	-566
Miscellaneous Products	0	0	-	3	0	3	0	3	-3
<b>Total</b>	<b>128,198</b>	<b>18,466</b>	<b>109,732</b>	<b>100,603</b>	<b>133,321</b>	<b>-32,718</b>	<b>98,037</b>	<b>162,833</b>	<b>-64,795</b>

See footnotes at end of table.

**Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail <sup>1</sup> Between PAD Districts, September 2018**  
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
<b>Crude Oil</b> .....	<b>6,526</b>	<b>23,251</b>	<b>-16,725</b>	<b>4,622</b>	<b>0</b>	<b>4,622</b>
<b>Petroleum Products</b> .....	<b>7,484</b>	<b>19,569</b>	<b>-12,085</b>	<b>12,132</b>	<b>162</b>	<b>11,969</b>
Natural Gas Liquids .....	3,700	16,521	-12,821	835	0	835
Ethane .....	328	4,242	-3,914	0	0	—
Propane .....	1,837	6,344	-4,507	522	0	522
Normal Butane .....	818	2,496	-1,678	257	0	257
Isobutane .....	293	1,221	-928	56	0	56
Natural Gasoline .....	424	2,218	-1,794	0	0	—
Refinery Olefins .....	0	0	—	0	0	—
Ethylene .....	—	—	—	—	—	—
Propylene .....	0	0	—	0	0	—
Butylene .....	0	0	—	0	0	—
Isobutylene .....	0	0	—	0	0	—
Unfinished Oils .....	0	0	—	0	0	—
Motor Gasoline Blending Components .....	1,554	835	719	4,087	0	4,087
Reformulated - RBOB .....	—	—	—	2,128	0	2,128
Conventional .....	1,554	835	719	1,959	0	1,959
CBOB .....	1,554	835	719	1,959	0	1,959
GTAB .....	—	—	—	—	—	—
Other .....	0	0	—	0	0	—
Renewable Fuels .....	283	0	283	5,440	0	5,440
Fuel Ethanol .....	264	0	264	4,854	0	4,854
Renewable Diesel Fuel <sup>2</sup> .....	20	0	20	586	0	586
Other Renewable Fuels .....	—	—	—	0	0	—
Finished Motor Gasoline .....	183	773	-590	381	0	381
Reformulated .....	—	—	—	0	0	—
Reformulated Blended with Fuel Ethanol .....	—	—	—	0	0	—
Reformulated Other .....	—	—	—	—	—	—
Conventional .....	183	773	-590	381	0	381
Conventional Blended with Fuel Ethanol .....	0	0	—	0	0	—
Ed55 and Lower .....	0	0	—	0	0	—
Greater than Ed55 .....	0	0	—	0	0	—
Conventional Other .....	183	773	-590	381	0	381
Finished Aviation Gasoline .....	0	0	—	0	0	—
Kerosene-Type Jet Fuel .....	786	0	786	202	0	202
Kerosene .....	0	0	—	0	0	—
Distillate Fuel Oil .....	856	639	217	752	0	752
15 ppm sulfur and under .....	856	639	217	752	0	752
Greater than 15 ppm to 500 ppm sulfur .....	0	0	—	0	0	—
Greater than 500 ppm sulfur .....	0	0	—	0	0	—
Residual Fuel Oil .....	0	0	—	0	0	—
Petrochemical Feedstocks .....	—	—	—	0	0	—
Naphtha for Petrochemical Feedstock Use .....	—	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use .....	—	—	—	—	—	—
Special Naphthas .....	—	—	—	0	0	—
Lubricants .....	0	0	—	—	92	-92
Waxes .....	0	0	—	0	0	—
Marketable Petroleum Coke .....	27	240	-213	0	50	-50
Asphalt and Road Oil .....	95	561	-467	435	20	414
Miscellaneous Products .....	0	0	—	0	0	—
<b>Total</b> .....	<b>14,010</b>	<b>42,820</b>	<b>-28,810</b>	<b>16,754</b>	<b>162</b>	<b>16,591</b>

— = No Data Reported.

<sup>1</sup> Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.

<sup>2</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

## Appendix A

# District Descriptions and Maps

The following are the Refining Districts which make up the Petroleum Administration for Defense (PAD) Districts.

### PAD District I

**East Coast:** The District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung, and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

**Appalachian No. 1:** The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

### Sub-PAD District I

**New England:** The States of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

**Central Atlantic:** The District of Columbia and the States of Delaware, Maryland, New Jersey, New York, and Pennsylvania.

**Lower Atlantic:** The States of Florida, Georgia, North Carolina, South Carolina, Virginia and West Virginia.

### PAD District II

**Indiana-Illinois-Kentucky:** The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and Ohio.

**Minnesota-Wisconsin-North and South Dakota:** The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

**Oklahoma-Kansas-Missouri:** The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

### PAD District III

**Texas Inland:** The State of Texas except the Texas Gulf Coast District.

**Texas Gulf Coast:** The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

**Louisiana Gulf Coast:** The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following counties of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabama: Mobile and Baldwin.

**North Louisiana-Arkansas:** The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

**New Mexico:** The State of New Mexico.

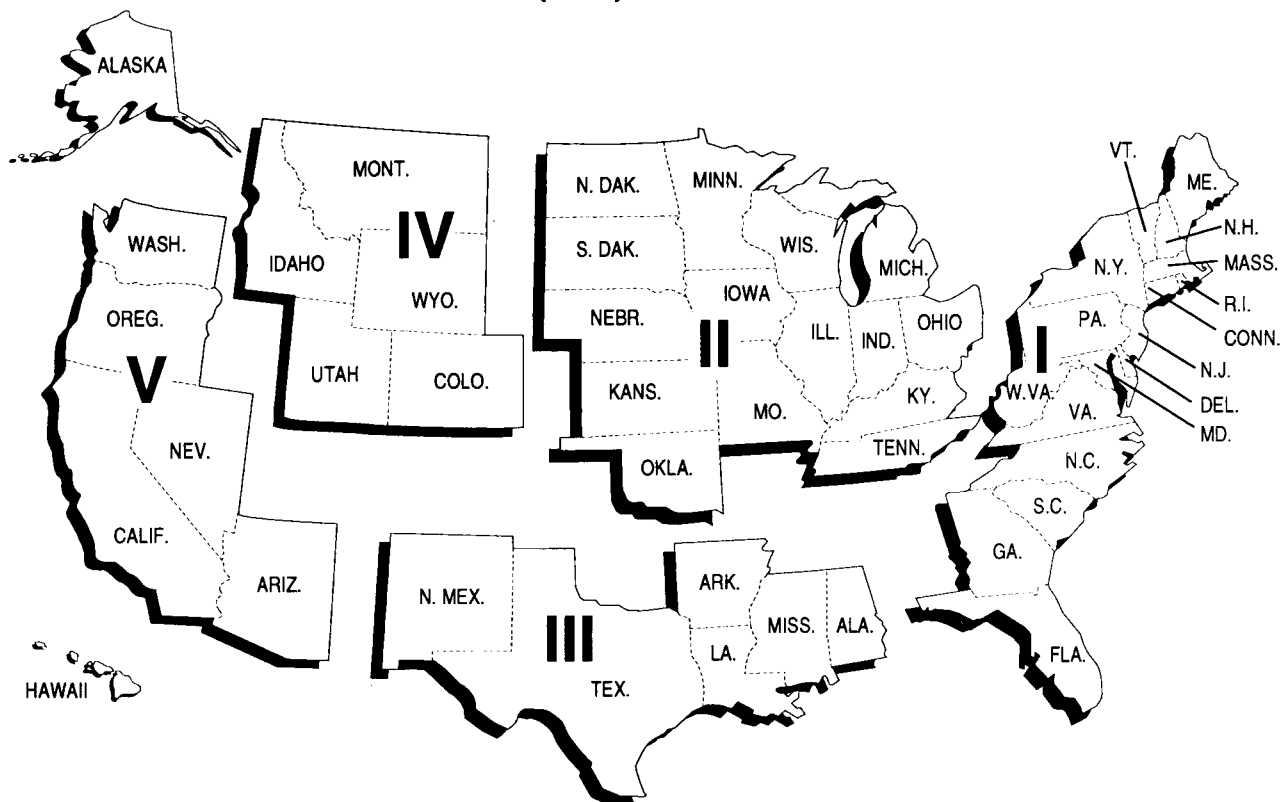
### PAD District IV

**Rocky Mountain:** The States of Montana, Idaho, Wyoming, Utah, and Colorado.

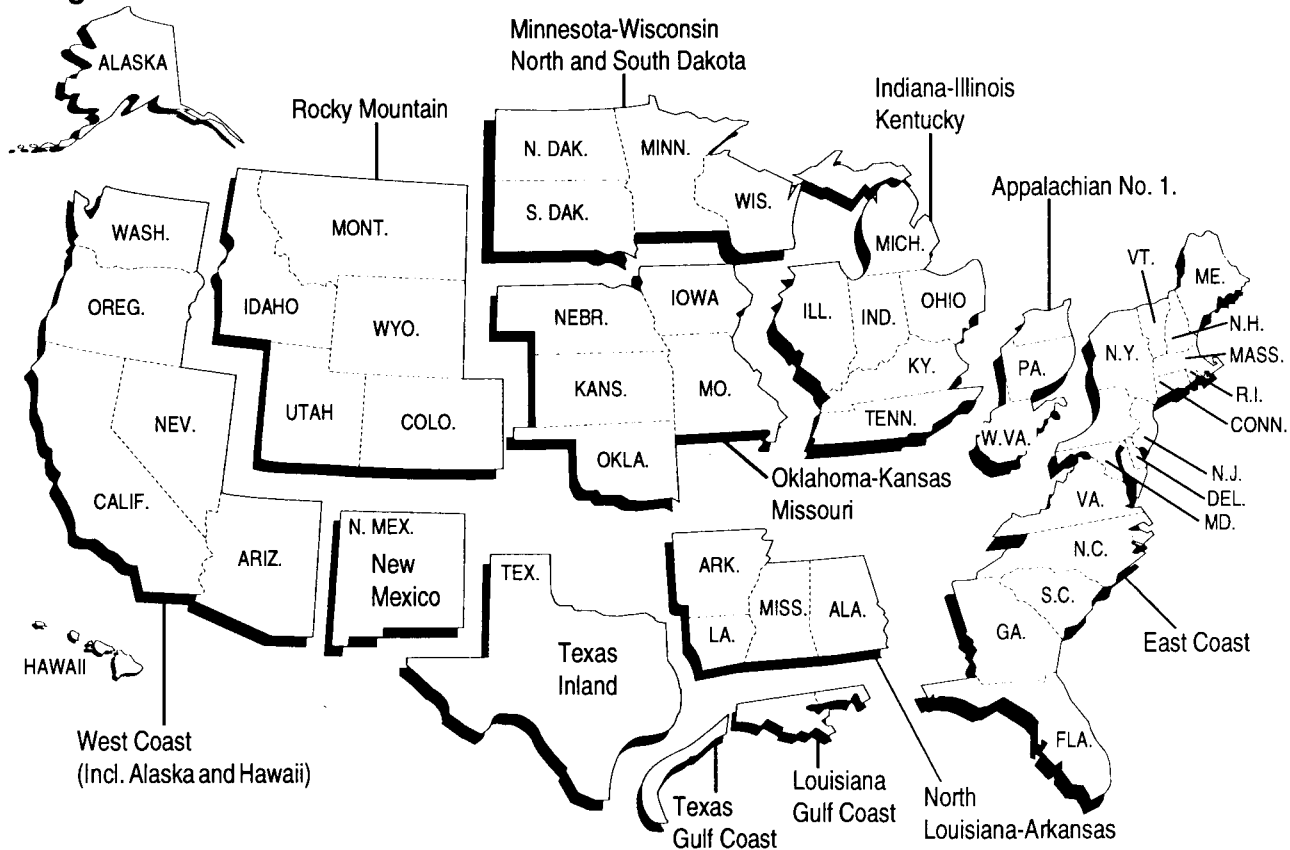
### PAD District V

**West Coast:** The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawaii.

## Petroleum Administration for Defense (PAD) Districts



## Refining Districts





## PSM Explanatory Notes

### Preface

The *Petroleum Supply Monthly (PSM)* is the monthly component of a series of three publications concerning the supply and disposition of crude oil and petroleum products produced by the Petroleum Division of the Energy Information Administration (EIA). The other two components are the *Weekly Petroleum Status Report (WPSR)* and the *Petroleum Supply Annual (PSA)*. Together these publications present a comprehensive snapshot of petroleum supply data on a weekly, monthly and yearly basis.

Data presented in the PSM describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply: petroleum refiners, motor gasoline blenders, operators of natural gas processing plants and fractionators, inter-PAD District transporters, importers, and major inventory holders of petroleum products and crude oil. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

The PSM tables present statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District level, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources.

Final statistics for the data series published in the *PSM* are published in the *PSA*. The *PSA* is published approximately five months after the end of the report year.

## Appendix B. Explanatory Notes

### 1. Overview

#### A. The Energy Information Administration's Quality Guidelines

The data contained in the *Petroleum Supply Monthly (PSM)* are subject to separate information quality guidelines issued by the Office of Management and Budget (OMB), the Department of Energy (DOE), and Energy Information Administration (EIA). With available resources, EIA continually works to improve its systems in order to provide high quality information needed by public and private policymakers and decision makers. EIA has performance standards to ensure the quality (i.e., objectivity, utility, and integrity) of information it disseminates to the public. Quality is ensured and maximized at levels appropriate to the nature and timeliness of the disseminated information.

#### B. Concepts of Product Supply and Demand

Petroleum supply estimates contained in the PSM are often interpreted as an approximation of petroleum demand measured as product supplied. Product supplied is often called “implied” demand because it is a measure of demand that is implied by disappearance of petroleum products from facilities and activities in the “primary” supply chain. Facilities and activities in the primary supply chain include refineries and blending terminals, gas processing plants and fractionators, oxygenate producers, biodiesel producers, imports, exports, bulk storage terminals, and pipelines. Total product supplied in the PSM at the U.S. level is equal to the sum of field production, plus refinery and blender net production, plus renewable fuels, and oxygenate plant net production, plus imports, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports. Net receipts are added as a component of supply at the PAD District level. Crude oil product supplied is normally zero because crude oil is processed in refineries and rarely, if ever, used directly.

The secondary system is that portion of the overall distribution network that falls between producers and end-users. Product typically flows in bulk from the primary supply system into the secondary system before delivery in small quantities to consumers (the tertiary system). The secondary system includes storage at bulk plants; at retail motor fuel outlets, such as service stations, truck stops, and convenience stores; and at retail fuel oil dealers. Bulk plants are wholesale storage facilities that have less than 50,000 barrels of storage capacity and, by definition, receive product only by tank car or truck, not by barge, tanker, or pipeline. Tertiary inventories are held by end users and include fuel in vehicle tanks, heating oil in residential tanks, fuel oil held by utilities, jet fuel stored in facilities operated by end users, and certain proprietary storage of raw materials (e.g. propane) for the chemical industry.

Data users sometimes consider demand as sales to the ultimate consumer or as the actual consumption of the product. Since there may be time delays between the movement of product into the primary market and its ultimate purchase or consumption, these definitions of demand require data on changes in secondary and/or tertiary stocks or the assumption that these values either remain constant or are small

compared to primary supply. The most recent study of secondary stocks was done by the National Petroleum Council in 1989. This study revealed that secondary distillate stocks were equal to about 6.9 percent of distillate stocks and 6.7 percent of distillate storage capacity.

#### C. Components of Supply and Disposition

The detailed statistics tables in the PSM provide complete supply and disposition information for the current month and year to date. The tables are organized to locate National and Petroleum Administration for Defense (PAD) District supply and disposition data at the front followed by tables that contain detailed information on supply and disposition. These include tables on crude oil and petroleum product production, import/export data, stocks information, and lastly, data on crude oil and petroleum product movements. To assist in the interpretation of these tables, the following discussion of supply, disposition, and ending stocks as shown in Tables 1– 25 is provided. The categories and products are defined in the EIA Glossary.

##### (1.) Supply

a. Field Production - Total Field Production is the sum of crude oil production and natural gas plant liquids and liquefied refinery gases production.

Crude oil production is an estimate based on data received from State conservation agencies and the Mineral Management Service of the U.S. Department of the Interior. Refer to “Domestic Crude Oil Production” in Section 2C (1) for further details.

Field production of natural gas plant liquids is reported on Form EIA-816 and published on a net basis (i.e., production minus inputs).

b. Renewable Fuels and Oxygenate Plant Net Production - Renewable Fuels and Oxygenate Plant Net Production are reported on Forms EIA-819 and EIA-22M. Production includes oxygenates (fuel ethanol, ETBE, MTBE, and other oxygenates) plus negative production of pentanes plus, finished motor gasoline, and motor gasoline blending components added to fuel ethanol as denaturants as well as biodiesel. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reported as input during the same month.

c. Refinery and Blender Net Production – Refinery and Blender Net Production is reported on Form EIA-810 and EIA-815. Refinery and Blender Net Production equals refinery and blenders production minus refinery and blender net inputs. Negative production of finished petroleum products will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the

same month.

d. Imports - Imports include receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories or from foreign countries.

e. Net Receipts – Net Receipts data are included in tables containing PAD District-level data to account for inter-PAD District movements of crude oil and petroleum products. Net receipts for a PAD District are calculated by subtracting shipments out of the PAD District from receipts into the PAD District. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge, and Rail between PAD Districts are shown in Table 60.

f. Adjustments – This column includes adjustment quantities for crude oil, fuel ethanol, motor gasoline blending components, biodiesel (included in “Renewable Fuels Except Fuel Ethanol”) and distillate fuel oil. Adjustment quantities are derived either to balance supply and disposition for selected products or to reclassify one product to another product. Product supplied is the balancing item for most products and is interpreted as an implied measure of petroleum demand. Adjustments are used in cases where it does not make sense to interpret the balancing item as demand. Reclassifications reported in the adjustments column may be implied by the supply and disposition balance or reported on surveys. Recall that supply at the U.S. level is equal to the sum of field production, renewable fuels and oxygenate plant net production, refinery and blender net production, imports, and adjustments. Disposition at the U.S. level is equal to the sum of stock change, refinery and blender net inputs, exports, and products supplied. At the PAD District level, supply components include net receipts equal to gross receipts from other PAD Districts minus gross shipments to other PAD Districts. In every case, supply must equal disposition. Applicable components of supply and disposition vary depending on the product or product group. Unless otherwise noted in Section 2C, adjustment calculations that balance supply and disposition equal disposition minus supply for the U.S. and for each PAD District.

## (2.) Disposition

a. Stock Change – Stock Change is calculated as the difference between the current month Ending Stocks column and the Ending Stocks column in the prior month’s publication. A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.

b. Refinery and Blender Net Inputs – Refinery and Blender Net Inputs are inputs of crude oil and intermediate materials (unfinished oils, motor and aviation gasoline blending components, liquefied petroleum gases, pentanes plus, hydrogen, oxygenates, renewable fuels, and other hydrocarbons) that are processed at refineries or blended at terminals to produce finished petroleum products.

Crude oil input represents total crude oil (domestic and foreign) input to atmospheric crude oil distillation units and other refinery processing units (e.g. vacuum distillation units).

Inputs of natural gas plant liquids are refinery input of natural gas liquids received from natural gas plants for blending and processing. Published inputs of natural gas plant liquids are reported on a gross basis.

Inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components are published on a net basis (i.e., refinery input minus refinery production). Negative inputs of unfinished oils and motor and aviation gasoline blending components will occur when the amount of a product produced during the month is greater than the amount of that same product that is input or reclassified to become another product during the same month.

c. Exports - Exports include shipments from the 50 States and the District of Columbia to Puerto Rico, the Virgin Islands, other U.S. possessions and territories and to foreign countries.

d. Products Supplied - Products supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, (plus net receipts on a PAD District basis), plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Product supplied value indicates those quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of the product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported; (2) data were misreported or reported late; (3) in the case of calculations on a PAD District basis, the figure for net receipts was inaccurate because the coverage of inter-PAD movements was incomplete; and (4) products such as gasoline blending components and unfinished oils have entered the primary supply channels with their production not having been reported, e.g., streams returned to refineries from petrochemical plants.

Beginning with data for January 2010, product supplied for crude oil is assumed equal to zero. Prior to January 1983, crude oil burned on leases and by pipelines as fuel was reported as either distillate or residual fuel oil and was included in product supplied for these products. From January 1983 through December 2009, crude oil product supplied was equal to crude oil used directly as reported on Form EIA-813 “Monthly Crude Oil Report.” Reporting of crude oil used directly was discontinued on Form EIA-813 after December 2009.

## (3.) Ending Stocks

Ending stocks are primary stocks of crude oil and petroleum products held in storage as of 12 midnight on the last day of the month. Primary stocks include crude oil or petroleum products held in storage at refineries, natural gas processing plants, pipelines, tank farms, and bulk terminals.

Crude oil that is in-transit by water from Alaska and crude oil stored in the Strategic Petroleum Reserve is included. Primary

Crude oil that is in-transit by water from Alaska and crude oil stored in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage. Primary stocks of petroleum products also exclude secondary stocks held by dealers and jobbers and tertiary stocks held by consumers. Product stocks held as reserves by federal and state agencies are excluded from primary stock quantities reported by EIA, but quantities held in selected government reserves are provided in Appendix D.

Primary stocks of crude oil included barrels held on producing sites (lease stocks) until June 2016. Primary stocks of crude oil excluded lease stocks beginning with release of PSM data for July 2016 on September 30, 2016. Historical crude oil stocks in Petroleum Navigator were revised beginning with data for January 2005 to exclude lease stocks. Petroleum Navigator data may be accessed from the following locations on the EIA web site.

[http://www.eia.gov/dnav/pet/pet\\_sum\\_snd\\_d\\_nus\\_mbb1\\_m\\_cur.htm](http://www.eia.gov/dnav/pet/pet_sum_snd_d_nus_mbb1_m_cur.htm)  
[http://www.eia.gov/dnav/pet/pet\\_sum\\_crdsnd\\_k\\_m.htm](http://www.eia.gov/dnav/pet/pet_sum_crdsnd_k_m.htm)  
[http://www.eia.gov/dnav/pet/pet\\_stoc\\_typ\\_c\\_nus\\_EPC0\\_mbb1\\_m.htm](http://www.eia.gov/dnav/pet/pet_stoc_typ_c_nus_EPC0_mbb1_m.htm)

## 2. Components - Forms Discussions

The data presented in the PSM include data collected by the EIA on nine monthly petroleum supply surveys, export data obtained from the U. S. Bureau of the Census, and crude production data obtained from State conservation agencies and the Minerals Management Service of the U. S. Department of Interior.

### A. Petroleum Supply Reporting System

The nine monthly petroleum supply surveys are part of the Petroleum Supply Reporting System (PSRS). The PSRS tracks the supply and disposition of crude oil, petroleum products, and natural gas liquids in the United States. The PSRS is organized into two data collection subsystems: the Weekly Petroleum Supply Reporting System (WPSRS) and the Monthly Petroleum Supply Reporting System (MPSRS). The WPSRS processes the data from the seven weekly surveys. The MPSRS includes nine monthly surveys and one annual survey. The survey forms that comprise the PSRS are:

1. EIA-800, "Weekly Refinery Report,"
2. EIA-802, "Weekly Product Pipeline Report,"
3. EIA-803, "Weekly Crude Oil Stocks Report,"
4. EIA-804, "Weekly Imports Report,"
5. EIA-805, "Weekly Terminal Blender Report,"
6. EIA-809, "Weekly Oxygenate Report,"
8. EIA-22M, "Monthly Biodiesel Production Survey,"
9. EIA-810, "Monthly Refinery Report,"
10. EIA-812, "Monthly Product Pipeline Report,"
11. EIA-813, "Monthly Crude Oil Report,"
12. EIA-814, "Monthly Imports Report,"
13. EIA-815, "Monthly Terminal Blender Report,"
14. EIA-816, "Monthly Natural Gas Liquids Report"
15. EIA-817, "Monthly Tanker and Barge Movement Report"
16. EIA-819, "Monthly Oxygenate Report"

### 17. EIA-820, "Annual Refinery Report."

Both weekly and monthly surveys are administered at six key points along the petroleum production and supply chain including refineries, fractionators, natural gas processing plants, bulk product storage and blending terminals, crude oil and product pipelines, crude oil stock holders, importers, and renewable fuel (biodiesel and fuel ethanol) and oxygenate producing plants. Monthly surveys also include inter-PAD District movements by pipelines, tankers, and barges. Weekly surveys do not capture petroleum movements. Respondents reporting on weekly surveys are sampled from among the respondents reporting on monthly surveys.

Annual U.S. refinery capacity data are collected on the Form EIA-820, "Annual Refinery Report." The EIA-820 data are published in the annual "Refinery Capacity Report."

## B. Monthly Supply Survey Description and Methodology

### (1.) Description of Surveys Forms

Copies of the survey forms and instructions can be found at: [http://www.eia.doe.gov/oil\\_gas/petroleum/survey\\_forms/pet\\_survey\\_forms.html](http://www.eia.doe.gov/oil_gas/petroleum/survey_forms/pet_survey_forms.html)

The Form EIA-22M "Monthly Biodiesel Production Survey" collects data on biodiesel plant location, operating status, annual production capacity, monthly biodiesel and co-product production, stocks, input of feedstocks, alcohol, and catalysts, and biodiesel sales.

The Form EIA-810, "Monthly Refinery Report," collects data on refinery input and capacity, sulfur content and API gravity of crude oil, and data on supply (beginning stocks, receipts, and production) and disposition (inputs, shipments, fuel use and losses, and ending stocks) of crude oil and refined products. Working and shell storage capacity for selected products is collected on a semi-annual basis.

The Form EIA-812, "Monthly Product Pipeline Report," collects data on end-of-month stocks and movements of petroleum products transported by pipeline. Intermediate movements for pipeline systems operating in more than two PAD Districts are included. Product pipeline tank storage capacity for selected products is collected on a semi-annual basis.

The Form EIA-813, "Monthly Crude Oil Report," collects data on end-of-month stock levels of crude oil held at pipeline and tank farms (associated with the pipelines) and terminals operated by the reporting company. Also, crude oil consumed by pipelines and on leases as pump fuel, boiler fuel, etc., is reported. Data are reported on a PAD District basis. Total Alaskan crude oil stocks in-transit by water (including stocks held at transshipment terminals between Alaska and the continental United States) to the 50 States, the District of Columbia, Puerto Rico, and the Virgin Islands are also reported by the transporting company having custody of the stocks. Inter-PAD District movements of crude oil by pipeline are collected by the shipping and receiving PAD District. Intermediate movements for pipeline systems operating in more than two PAD Districts

are not included. Crude oil storage capacity of tank farms is collected on a semi-annual basis.

The Form EIA-814, “Monthly Imports Report,” collects data on imports of crude oil and petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands, and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), and (3) from Puerto Rico, the Virgin Islands, and other U.S. possessions into the 50 States and the District of Columbia. Imports into Foreign Trade Zones located in the 50 States and the District of Columbia are considered imports into the 50 States and the District of Columbia. The type of commodity, port of entry, country of origin, quantity (thousand barrels), sulfur percent by weight, API gravity, and name and location of the processing or storage facility are reported. Sulfur percent by weight is requested for crude oil, crude oil burned as fuel, and residual fuel oil only. API gravity is requested for crude oil only. The name and location of the processing or storage facility is requested for crude oil, unfinished oils, and gasoline blending components only.

The Form EIA-815, “Monthly Terminal Blender Report,” collects data on the operations of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U. S. possessions. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and fuel use and losses during the month are collected from operators of terminals. Working and shell storage capacity is collected on a semi-annual basis.

The Form EIA-816, “Monthly Natural Gas Liquids Report,” collects data on the operations of natural gas processing plants and fractionators. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and plant fuel use and losses during the month are collected from operators of natural gas processing plants. End-of-month stocks are collected from fractionators.

The Form EIA-817, “Monthly Tanker and Barge Movement Report,” collects data on the movements of crude oil and petroleum products between PAD Districts. Data are reported by shipping and receiving PAD District and sub-PAD District. Shipments to and from the Panama Canal are also included if the shipment was delivered to the Canal.

The Form EIA-819, “Monthly Oxygenate Report” collects facility-level data on oxygenate inputs, production, gasoline blending at ethanol plants, and end-of-month stocks. Data on end-of-month stocks are reported on a custody basis regardless of ownership. Fuel ethanol storage capacity is collected on a semi-annual basis.

## (2.) Frame

EIA maintains complete lists of respondents to its monthly surveys. Each survey has a list of companies and facilities required to submit petroleum activity data. This list is known as the survey frame. Frame maintenance procedures are used to monitor the status of petroleum companies and facilities

currently contained in each survey frame as well as to identify new members to be added to the frame. As a result, all known petroleum supply organizations falling within the definition of “Who Must Submit” participate in the survey.

The activities for frames maintenance are conducted on an ongoing basis. Monthly frames maintenance procedures focus on examining industry periodicals that report changes in status (births, deaths, sales, mergers, and acquisitions) of petroleum facilities producing, transporting, importing, and/or storing crude oil and petroleum products. Augmenting these sources are articles in newspapers, notices from respondents, and information received from survey systems operated by other offices. Survey managers review these sources regularly to monitor changes in company operations and to develop lists of potential respondents. These activities assure coverage of the reporting universe and maintain accurate facility information on addresses and ownership.

Respondents to Form EIA-22M “Monthly Biodiesel Production Survey” include operators of plants that produce biodiesel meeting ASTM D 6751-07B specifications and used for commercial purposes.

Respondents to Form EIA-810, “Monthly Refinery Report” include operators of all operating and idle petroleum refineries located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam and other U.S. possessions.

Respondents to Form EIA-812, “Monthly Product Pipeline Report” include all product pipeline companies that carry petroleum products (including interstate, intrastate, and intra-company pipelines) in the 50 States and the District of Columbia.

Respondents to Form EIA-813, “Monthly Crude Oil Report” include all companies which carry or store 1,000 barrels or more of crude oil. Included in this survey are gathering and trunk pipeline companies (including interstate, intrastate, and intra-company pipelines), crude oil tank farm operators, and companies transporting Alaskan crude oil by water (to U.S. ports) in the 50 States and the District of Columbia.

Respondents to Form EIA-814, “Monthly Imports Report” include each importer of record (or Ultimate consignee in some situations regarding Canadian imports) that import crude oil or petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), (3) into Foreign Trade Zones located in the 50 States and the District of Columbia and (4) from Puerto Rico, the Virgin Islands and other U.S. possessions into the 50 States and the District of Columbia. A report is required only if there has been an import during the month unless the importer has been selected as part of a sample to report every month regardless of activity.

Respondents to Form EIA-815, “Monthly Terminal Blender Report” include operators of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands,

Guam, and other U. S. possessions must report. A bulk terminal is primarily used for storage, marketing, and often blending of petroleum products and has a total bulk storage capacity of 50,000 barrels or more, and/or receives petroleum products by tanker, barge, or pipeline. Bulk terminal facilities associated with a product pipeline are included.

Respondents to Form EIA-816, “Monthly Natural Gas Liquids Report” include operators of all facilities that extract liquid hydrocarbons from a natural gas stream (natural gas processing plant) and/or separate a liquid hydrocarbon stream into its component products (fractionator).

Respondents to Form EIA-817, “Monthly Tanker and Barge Movement Report” include all companies that have custody of crude oil or petroleum products transported by tanker or barge between Petroleum Administration for Defense Districts and all companies that have custody of crude oil or petroleum products originating from a PAD District and transported to the Panama Canal with the intent that the crude oil or petroleum products be further transported to another PAD District.

For purposes of this report, custody is defined as physical possession of crude oil or petroleum products on a company-owned tanker or barge. Also, companies that lease vessels or contract for the movement of crude oil or petroleum products on a tanker or barge between PAD Districts are considered to have custody.

Respondents to Form EIA-819, “Monthly Oxygenate Report” include all operators of facilities that produce (manufacture or distill) oxygenates (including MTBE plants, petrochemical plants, and refineries that produce oxygenates as part of their operations located in the 50 States and the District of Columbia.)

### (3.) Collection

Survey data for the MPSRS are collected by facsimile, email, Internet using secure file transfer, and electronic transmission. All respondents must submit their data by the 20th calendar day following the end of the report month. Receipt of the reports is monitored using an automated respondent mailing list. Telephone follow-up calls are made to nonrespondents prior to the publication deadline. Respondents who are chronically late (i.e., 3 consecutive months) are notified by EIA by certified letter.

### (4.) Processing and Micro Editing

Upon receipt, all reported data are transformed into a standard format and sent through a log-in and prescreening process to validate respondent control information and resolve any discrepancies. The data are then processed using generalized edit and imputation procedures. Automated editing procedures check current data for consistency with past data and for internal consistency (e.g., totals equal to the sums of the parts). After the edit failures are resolved and imputation performed for nonrespondents, preliminary tables are produced and used to identify anomalies. These tables show U.S. and PAD District estimates for the current month and the prior 4 years. Anomalies

result in further review of respondent data which in turn may result in additional flagged data and imputation.

### (5.) Estimation and Imputation

The nine monthly supply surveys are census surveys. As such, the estimates using these data are the sum of the edited, reported data. Imputation is performed for companies that fail to file Forms EIA-22M, 810, 812, 813, 815, 816, and 819. For these companies, previous monthly values and values reported on the weekly survey forms are used if available. Data for nonrespondents to the Forms EIA-814 and 817 are not imputed because respondent-level data for these surveys are highly variable.

Adjustments are made to aggregate data from time to time. For example, unusual industry conditions, including fuel transitions, business practice shifts, or hurricane dislocations, may generate reporting anomalies and require adjustments. Measurement error and frame deficiencies may occasionally result in inconsistencies when individual respondent data are aggregated to publication levels and require adjustment. Monthly supply data are reviewed throughout the year and some estimates may be replaced with newly available or resubmitted respondent data in the *Petroleum Supply Annual (PSA)*.

### (6.) Macro Editing

Monthly data are compared to weekly data on a regular basis. Discrepancies between weekly and monthly data are documented and respondents are called when discrepancies are either large (usually over 300 thousand barrels) or consistent (e.g., weekly data are always lower than monthly data). In addition, a comparison of the data collected on the PSRS with other similar data series from sources outside of the EIA is performed on an ongoing basis. Results of selected data comparisons are published once a year in the feature article, “Comparison of Independent Statistics on Petroleum Supply.” Additional comparisons are made between survey data and model results. Data reported in the Petroleum Supply Monthly and Petroleum Supply Annual are routinely imputed to correct for cases where comparison with other data suggests errors in survey data.

### (7.) Dissemination

The *PSM* data are normally released within 60 days of the close of the reference month. The *PSM* is available on the web at:

<http://www.eia.gov/petroleum/supply/monthly/>

Much of the *PSM* data are available on the web product, Petroleum Navigator. Petroleum Navigator provides an interface for accessing a comprehensive set of EIA’s petroleum data. Features include: downloadable spreadsheets containing complete data history, data tables which “pivot” to present different perspectives, and selection boxes to easily change the product, area, process, period, and unit of measure. Petroleum Navigator can be accessed at: <http://www.eia.gov/petroleum/data.cfm>

## C. Derived Data

Due to the time constraints in publishing monthly petroleum supply statistics and the desire to reduce industry response burden, some of the statistics published in the PSM are obtained from sources other than the monthly supply surveys. These other sources include models to data and data from supplemental sources such as the Bureau of the Census.

### (1.) Domestic Crude Oil Production

The interim estimate of U.S., PAD District, and state oil production for the current reference month, published in Tables 1 through 26 of the PSM, are based on:

- (a.) crude oil production data from state government agencies and the Department of the Interior, Bureau of Safety and Environmental Enforcement;
- (b.) crude oil production data reported on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report." For some states, EIA uses current reported data from the state (chiefly Alaska). For the states of Arkansas, California, Colorado, Kansas, Louisiana, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and the Federal Gulf of Mexico, EIA calculates an estimate by modeling the relationship between final state-level data from DrillingInfo, a third-party vendor of well-level data collected by state agencies, and data reported on the EIA-914 survey using weighted least squares (WLS) linear regression. Additional explanation of the WLS estimation methodology is available. Estimates have to be made for crude oil production because complete and correct data from states may take from several months to over two years.
- (c.) first purchase data reported on Form EIA-182 "Domestic Crude Oil First Purchase Report." For the remaining states and areas (Alabama, Arizona, Federal Pacific Offshore, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia) EIA calculates an estimate by using the average lagged ratio (ALR) of the state reported data to EIA-182 data, applied to the current EIA-182 data. Additional explanation of the ALR estimation methodology is available.

State-level production estimates are published in Table 26, "Production of Crude Oil by PAD District and State." Table 26 contains estimates for crude oil production for state and federal offshore areas reported by state agencies and the Bureau of Safety and Environmental Enforcement or estimated by EIA using the ALR or WLS methods discussed above. Every month, the monthly crude oil production estimates are updated in Table 26 of the Petroleum Supply Monthly (<http://www.eia.gov/petroleum/supply/monthly/>) using reports from state agencies and the Bureau of Safety and Environmental Enforcement. The estimates are reported in the Petroleum

Navigator and the Petroleum Supply Monthly roughly 60 days after the production month.

### (2.) Exports

The U.S. Bureau of the Census compiles the official U.S. export statistics. Exporters are required to file a "Shipper's Export Declaration Document" with the U.S. Census Bureau. Each month the EIA receives aggregated export statistics from the U.S. Bureau of the Census (EM-522 and EM-594). Census export statistics used in the PSM reflect both government and non-governmental exports of domestic and foreign merchandise from the United States (the 50 States and the District of Columbia) to foreign countries and U.S. possessions, without regard to whether or not the exportation involves a commercial transaction. The following types of transactions are excluded from the statistics:

- Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

### (3.) Movements of crude oil by railroad

The volume of crude oil, ethanol, biodiesel, propane, propylene, normal butane, and isobutane moving by railroad is calculated using several data sources including Carload Waybill Sample (CWS) data from the U.S. Surface Transportation Board (STB), data from the National Energy Board of Canada (NEB), data in EIA's Oil and Gas Supply Module (OGSM) within the National Energy Modeling system (NEMS) for data prior to 2015, the EIA-915 survey starting in January 2015, and an estimation procedure developed by EIA for months in which data these data are not available.

Once the data necessary for calculating rail movements become available, which may take as long as 60 days after the end of a calendar quarter, EIA will revise the estimates made.

Movements of crude oil, ethanol, biodiesel, propane, propylene, normal butane, and isobutane by rail are based on EIA analysis of carload data from the STB CWS. Additional data from the NEB, OGSM, and the EIA-915 are used for estimating factors for converting carloads to barrels of crude oil. Carloads of ethanol, biodiesel, propane, propylene, normal butane, and isobutane are converted to barrels using data from the CWS.

Carload data from the STB are available approximately 60 days after the end of each quarter. For example, carload data for the first quarter of each year are typically available by about June 1. Therefore, recent-month rail movements reported by EIA in the Petroleum Supply Monthly and Petroleum Navigator are modeled based on historical rail movement averages, medians, or correlations of rail movements derived from actual carload data with other regional supply data collected by EIA or other sources including field production, imports, refinery and blender inputs, movements other than rail, exports, and supply adjustments.

Estimates of rail movements are subject to revision on a monthly basis as new, more complete, and more accurate data become available. Monthly revisions will typically affect data available through Petroleum Navigator on the EIA web site for the current year and up to two prior years. To the extent that revisions are needed to data more than 2 years in the past, these revisions will be made once a year at the time when Petroleum Navigator tables are updated with final data for a year from the Petroleum Supply Annual. Petroleum Supply Monthly and Petroleum Supply Annual tables released as PDF files will not be revised.

#### (4.) Stocks of Crude Oil held on Producing Sites (Lease Stocks)

The adjustment for lease stocks was discontinued beginning with PSM data for July 2016 released on September 30, 2016 because EIA discontinued reporting crude oil stocks held on producing sites (lease stocks). The lease stock adjustment remains in all historical EIA lease stocks data.

This adjustment corrects for incomplete survey coverage of companies that store crude oil on leases. Up until 1983, monthly state government data on lease stocks were substituted for EIA data wherever possible in order to rectify the understatement of lease crude oil stocks. State data were available from three states - Texas, New Mexico, and Montana. To calculate the “lease adjustment,” a comparison between EIA reported data and the state government data was made and the difference added to the EIA data for the respective states.

In 1983, the EIA modified the Form EIA-813 to eliminate state data on crude oil stocks and began collecting crude oil stock data by Petroleum Administration for Defense (PAD) District. With this change, the “lease adjustment” could no longer be calculated on a state basis and was changed to a PAD District level. To adjust for this incomplete coverage, 10,300 thousand barrels of crude oil are added to PAD District 3 stocks and 330 thousand barrels are added to PAD District 4 stocks.

#### (5.) Trans-Alaska Pipeline System (TAPS) Natural Gas Plant Liquids (NGPL Adjustment)

The TAPS-NGPL adjustment corrects for overstatement of crude oil receipts and input at refineries due to NGPL injection into Alaskan crude oil transported in TAPS. Natural gas

processing plants in Alaska produce substantial volumes of NGPL that are added to crude oil transported through TAPS. Refiners have been unable to separate the volume of NGPL from Alaskan crude oil when reporting crude oil receipts and inputs to EIA. The TAPS-NGPL adjustment subtracts Alaskan NGPL production reported by selected gas processing plant operators from crude oil receipts and inputs reported by refiners. Adjusted NGPL production is added to refinery receipts and inputs of NGPL. The adjusted NGPL barrels are allocated to PAD Districts based on the regional distribution of receipts of Alaskan crude oil. Data most affected by the TAPS-NGPL adjustment are receipts and inputs of crude oil in PAD District 5 and receipts, inputs, and product supplied of butane and pentanes plus also in PAD District 5.

NGPL injections into crude oil transported in the TAPS started in 1987. The TAPS-NGPL adjustment was first applied to revised data reported in the Petroleum Supply Annual (PSA) for 1988.

#### (6.) Finished Motor Gasoline Adjustment

Adjustment quantities for finished motor gasoline are the sum of motor gasoline blending components, fuel ethanol, and methyl tertiary butyl ether (MTBE) adjustments reclassified to finished motor gasoline. Finished motor gasoline adjustment quantities are assumed to reflect gasoline blending activity that was not reported on surveys.

**Note on MTBE Adjustment:** The MTBE portion of the gasoline adjustment described in this section was only applied to Petroleum Supply Monthly (PSM) data for 2009. The MTBE portion of the gasoline adjustment was discontinued after further examination of the issue made clear the MTBE adjustment was not helpful in forming an accurate statistical representation of U.S. and regional gasoline supplies. The MTBE adjustment was not applied to gasoline supply and disposition data in years prior to 2009, nor was it applied to revised data for 2009 published in the Petroleum Supply Annual or in years after 2009. This note only applies to MTBE adjustments. MTBE blending that was reported on EIA surveys is reflected in U.S. and regional gasoline supply and disposition data. Other adjustments to gasoline supply and disposition data to account for motor gasoline blending components and fuel ethanol remain as described in this section.

- Adjustment quantities for finished reformulated motor gasoline include adjustments for reformulated blendstock for oxygenate blending (RBOB) plus a percentage of gasoline treated as blendstock (GTAB), “other” motor gasoline blending components, fuel ethanol, and MTBE. The quantity of GTAB and “other” motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline is based on the ratio of finished reformulated motor gasoline net production divided by total finished motor gasoline net production reported on surveys by refiners and blenders in each



PAD District. Motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline are further classified as blended with alcohol (i.e. fuel ethanol), blended with ether (i.e. MTBE), or non-oxygenated during 2009.

Starting with data for January 2010, motor gasoline blending component adjustment quantities were classified only as blended with fuel ethanol and “other”. During 2009, RBOB adjustment quantities were classified based on the product description that included reference to the oxygenate to be blended. Beginning with data for January 2010, all RBOB is reported in one product category without reference to specific oxygenates, and all RBOB adjustment quantities are assumed blended with fuel ethanol. During 2009, adjustment quantities for GTAB and “other” motor gasoline blending components reclassified to finished reformulated gasoline were further classified as blended with ether, blended with alcohol, or non-oxygenated based on the ratio of production of these products in reported survey data. After determining adjustment quantities of motor gasoline blending components reclassified to each type of finished reformulated motor gasoline, portions of the fuel ethanol and MTBE adjustments were reclassified to reformulated motor gasoline. The fuel ethanol quantity reclassified to finished reformulated motor gasoline was determined using the ratio of fuel ethanol blended into finished motor gasoline calculated from fuel ethanol blending data reported on survey forms by PAD District. For example, if the calculated volumetric fuel ethanol blend ratio was 10%, then a quantity of the fuel ethanol adjustment sufficient to make a 10% blend with the available motor gasoline blending components is reclassified to finished reformulated motor gasoline, but the quantity of fuel ethanol cannot exceed the total quantity of the fuel ethanol adjustment. During 2009, a similar process was followed for allocating the MTBE adjustment to reformulated motor gasoline except the blend ratio was assumed to be 12% in all PAD Districts. Starting with data for January 2010, the entire MTBE adjustment quantity is assumed to be blended with finished conventional motor gasoline.

- Adjustment quantities for finished conventional motor gasoline include adjustments for conventional blendstock for oxygenate blending (CBOB) plus the portion of GTAB, “other” motor gasoline blending components, fuel ethanol and MTBE adjustments that were not reclassified to finished reformulated motor gasoline. The total adjustment to finished conventional motor gasoline is further classified as finished conventional gasoline blended with fuel ethanol and “other” finished conventional motor gasoline. The quantity of the finished conventional motor gasoline adjustment reclassified as finished conventional motor gasoline blended with fuel ethanol is determined using the quantity of the fuel ethanol adjustment allocated

to finished conventional motor gasoline and the fuel ethanol blend ratio calculated from fuel ethanol blending reported on surveys by PAD District. For example, if the fuel ethanol blend ratio calculated from survey data was 10% in a PAD District, then the total adjustment quantity of finished conventional motor gasoline in that PAD District would be 10 times the fuel ethanol adjustment quantity allocated to finished conventional gasoline (i.e. the adjustment to finished conventional motor gasoline blended with fuel ethanol includes 10% fuel ethanol and 90% gasoline from the motor gasoline blending components adjustment). The MTBE adjustment allocated to finished conventional motor gasoline is simply added to the adjustment for “other” finished conventional motor gasoline.

- Fuel ethanol adjustment quantities frequently exceed the volume of fuel ethanol needed to achieve a blend ratio implied by blending activity reported by refiners and blenders on surveys when considering only the gasoline barrels available from the motor gasoline blending components adjustment. In this case, “other” finished conventional motor gasoline is reclassified by the adjustment to finished conventional motor gasoline blended with alcohol in order to maintain an ethanol blend ratio equal to the fuel ethanol blend ratio reported by refiners and blenders in each PAD District.

#### (7.) Motor Gasoline Blending Components Adjustment

Adjustment quantities for motor gasoline blending components at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports and renewable fuels and oxygenate plant net production (i.e. motor gasoline blending components use as denaturant for fuel ethanol production). Adjustment quantities by PAD District equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, renewable fuels and oxygenate plant net production, and net receipts. Motor gasoline blending components adjustments are calculated for reformulated blendstock for oxygenate blending (RBOB), conventional blendstock for oxygenate blending (CBOB), gasoline treated as blendstock (GTAB), and “other” motor gasoline blending components. Product supplied for motor gasoline blending components is assumed to always equal zero because there is no end-user demand for motor gasoline blending components as anything other than finished motor gasoline. Motor gasoline blending components adjustment quantities are assumed to reflect finished motor gasoline blending implied by the supply and disposition balance but not reported on surveys. Adjustment quantities for motor gasoline blending components are reclassified to finished motor gasoline and added to the finished motor gasoline adjustment.

#### (8.) Renewable Fuels including Fuel Ethanol Adjustment

Adjustment quantities for renewable fuels (including fuel ethanol) at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum

of renewable fuels and oxygenate plant net production and imports. Calculation of adjustment quantities by PAD District depends on the product. Individual products include fuel ethanol, biomass based diesel fuel (including biodiesel), “other” renewable diesel fuel, and “other” renewable fuels (e.g. bio-jet fuel). Product supplied for renewable fuels (including fuel ethanol) is assumed equal to zero. Adjustments for fuel ethanol and “other” renewable fuels are discussed separately below.

- Fuel ethanol adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. There are no survey data available for rail movements of fuel ethanol between PAD Districts, and so allocation of fuel ethanol adjustments to PAD Districts is based on the ratio of fuel ethanol blending reported on surveys in each PAD District divided by fuel ethanol blending reported on surveys for the entire U.S. In this case, Fuel ethanol implied net receipts are calculated for each PAD District as the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production, imports, and adjustments. Fuel ethanol implied net receipts are the balancing item between total supply and disposition in each PAD District. Fuel ethanol adjustment quantities are assumed to reflect blending of fuel ethanol into finished motor gasoline that is implied by the available supply of fuel ethanol but not reported on surveys. Fuel ethanol adjustment volumes are reclassified to finished reformulated motor gasoline and finished conventional motor gasoline through finished motor gasoline adjustments.

- The product category called “renewable fuels except fuel ethanol” includes biomass-based diesel fuel (including biodiesel), “other” renewable diesel fuel, and “other” renewable fuels (e.g. bio-jet fuel). For PSM data prior to January 2012, renewable fuels except fuel ethanol adjustment quantities at the U.S. and PAD District levels were calculated as the sum of stock change, refinery and blender net input, and exports minus imports. Data for production of Renewable Fuels except Fuel Ethanol was unavailable and was excluded from Renewable Fuels and Oxygenate Plant Net Production. Therefore the calculation of adjustments to Renewable Fuels except Fuel Ethanol caused production to be included in the adjustment. Similarly, the calculation caused net inter-PAD District movements (i.e. net receipts) by rail and truck to also be included in adjustments to renewable fuels except fuel ethanol.

- Beginning with PSM data for January 2012, production of biodiesel reported on Form EIA-22M was included under the heading of “renewable fuels and oxygenate plant net production” in petroleum

supply and disposition balances for “renewable fuels except fuel ethanol”. As a result, the adjustment for “renewable fuels except fuel ethanol” no longer includes production of biodiesel. This change will also be made to revised monthly data for January-December 2011 when the 2011 Petroleum Supply Annual is released.

- Biodiesel adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. There are no survey data available for rail movements of biodiesel between PAD Districts, and so allocation of fuel biodiesel adjustments to PAD Districts is based on the ratio of biomass-based diesel blending reported on surveys in each PAD District divided by biomass-based diesel fuel blending reported on surveys for the entire U.S. Biodiesel implied net receipts are calculated for each PAD District as the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production, imports, and adjustments. Biodiesel implied net receipts are the balancing item between total supply and disposition in each PAD District. Biodiesel adjustment quantities are assumed to reflect blending of biodiesel into distillate fuel oil that is implied by the available supply of biodiesel but not reported as input on surveys. Biodiesel adjustment volumes are reclassified to distillate fuel oil (15 ppm sulfur and under) through distillate fuel oil adjustments.

#### (9.) Distillate Fuel Oil Adjustment

Adjustment quantities for distillate fuel oil show reclassification by pipeline operators of distillate fuel oil with sulfur content of 15 ppm and under to distillate fuel oil with sulfur content greater than 15 ppm to 500 ppm (inclusive). Reclassification may occur when distillate product with sulfur content of 15 ppm and under becomes mixed with products having higher sulfur content during pipeline transportation, storage, or handling. Adjustment quantities are reported by pipeline operators on Form EIA-812 “Monthly Product Pipeline Report.” This adjustment was discontinued after publication of data for December 2010

Beginning with PSM data for January 2012, distillate fuel oil adjustments equal the opposite of biodiesel adjustments described above in section 7. Biodiesel adjustments are added to distillate fuel oil (15 ppm sulfur and under) and to total distillate fuel oil. Distillate fuel oil adjustment quantities are assumed to reflect biodiesel blending activity implied by biodiesel supply and disposition but not reported on surveys. Distillate fuel oil adjustments for biodiesel will also be added to revised data for January-December 2011 when the 2011 Petroleum Supply Annual is released.

### (10.) Crude Oil Adjustment

Adjustment quantities for crude oil are derived to balance crude oil supply and disposition. Crude oil product supplied was equal to crude oil used directly as reported on Form EIA-813 “Monthly Crude Oil Report” in data through December 2009. Reporting crude oil used directly was discontinued on Form EIA-813 after collection of data for December 2009. Crude oil product supplied is assumed equal to zero beginning with data for January 2010. Undercounting crude oil imports in survey data is one example of a typical cause of crude oil adjustments. This results in a positive crude oil adjustment because crude oil disposition (i.e. the sum of stock change, refiner inputs, and exports) will exceed available supply (i.e. the sum of field production and imports) due to import undercounting. Crude oil losses are included in crude oil adjustment quantities. The crude oil adjustment was formerly called unaccounted-for crude oil. The name change was effective with data for January 2005.

### (11.) Other Hydrocarbon Adjustment

Adjustment quantities for “other” hydrocarbons equal the sum of stock change, refinery and blender net inputs and exports minus imports. “Other” hydrocarbons product supplied is assumed equal to zero. Adjustment quantities account for “other” hydrocarbons produced outside of refineries. There are no movements data collected on surveys for “other” hydrocarbons. Therefore, adjustment quantities include any net receipts of “other” hydrocarbons resulting from inter-PAD District movements.

### (12.) Hydrogen Adjustment

Adjustment quantities for hydrogen equal refinery and blender net input of hydrogen. Hydrogen product supplied is assumed equal to zero. Adjustment quantities account for hydrogen supplied to U.S. refineries from non-refinery sources. There are no movements data collected on surveys for hydrogen. Therefore, adjustment quantities at the PAD District level include any net receipts of hydrogen resulting from inter-PAD District movements.

### (13.) Oxygenates (excluding fuel ethanol) Adjustment

Adjustment quantities for oxygenates (excluding fuel ethanol) equal the sum of stock change, refinery and blender net inputs, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. Product supplied for oxygenates (excluding fuel ethanol) is assumed equal to zero. Methyl tertiary butyl ether (MTBE) is the single largest component of oxygenates (excluding fuel ethanol).

## 3. Quality

### A. General Discussion

#### (1.) Response Rates

The response rate is generally 98 to 100 percent. Average response rates for the monthly and weekly surveys are published in the annual PSM article “Accuracy of Petroleum Supply Data.” Chronic nonrespondents and late filing respondents are contacted in writing and reminded of their requirement to report. Companies that file late or fail to file are subject to criminal fines, civil penalties, and other sanctions as provided by Section 13(i) of the Federal Energy Administration (FEA) Act.

#### (2.) Non-sampling Errors

There are two types of errors usually associated with data produced from a survey; sampling errors and nonsampling errors. Because the estimates for the monthly surveys are based on a complete census of the frame, there is no sampling error in the data presented. The data, however, are subject to non-sampling errors. Non-sampling errors may arise from a number of sources including: (1) the inability to obtain data from all companies in the frame (non-response) and the method used to account for non-response, (2) response errors, (3) differences in the interpretation of questions or definitions, (4) mistakes in recording or coding of the data obtained from respondents, and (5) other errors of collection, response, coverage, processing, and estimation.

#### (3.) Resubmissions

Throughout the year, EIA accepts data revisions of monthly data. If a revision to a monthly submission is made after the PSM has been published, it is referred to as a resubmission. The final monthly values for the previous year are published in the PSA. These values reflect all PSM resubmissions and other data corrections. The values contained in the PSA are EIA’s most accurate measure of petroleum supply activity.

#### (4.) Revision Policy

EIA will publish revised monthly crude oil production estimates going back to the Previously published Petroleum Supply Annual every month in the Petroleum Supply Navigator (<http://www.eia.gov/petroleum/supply/monthly/>). Once a year with the release of the Petroleum Supply Annual, EIA will revise up to 10 years of historical production estimates in the Petroleum Supply Navigator.

## **B. Data Assessment**

The principal objective of the PSRS is to provide an accurate picture of petroleum industry activities and of the availability of petroleum products nationwide from primary distribution channels. The PSM preliminary monthly data serve as leading indicators of the final monthly data published in the PSA. The PSM monthly data are not expected to have the same level of accuracy as the final monthly data published in the PSA. However, the preliminary monthly data are expected to exhibit like trends and product flow characteristic of the final monthly data.

To assess the accuracy of monthly statistics, initial monthly estimates published in the PSM are compared with the final monthly aggregates published in the PSA. Although final monthly data are still subject to error, they have been thoroughly reviewed and edited, they reflect all revisions made during the year, and they are considered to be the most accurate data available. The mean absolute percent error provides a measure of the average revisions relative to the aggregates being measured for a variable. The mean absolute percent error for 2007 monthly data was less than 1 percent for 50 of the 66 major petroleum variables analyzed.

### **4. Provisions Regarding Disclosure of Information**

All PSRS survey forms, with the exception of the Form EIA-814, "Monthly Imports Report," have the same general disclosure information statement. The information reported on Form EIA-814 will be considered "public information" and may be publicly released in company or individually identifiable form, and will not be protected from disclosure in identifiable form.

The information reported on Forms EIA-810 through 813, 815 through 817, 819, and 820 will be protected and not disclosed to the

public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. §552, the Department of Energy (DOE) regulations, 10 C.F.R. §1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. §1905. The Federal Energy Administration Act requires the EIA to provide company-specific data to other Federal agencies when requested for official use. The information reported on this form may also be made available, upon request, to another DOE component; to any Committee of Congress, the Government Accountability Office, or other Federal agencies authorized by law to receive such information. A court of competent jurisdiction may obtain this information in response to an order. The information may be used for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Disclosure limitation procedures are not applied to the statistical data published from this survey's information. Thus, there may be some statistics that are based on data from fewer than three respondents, or that are dominated by data from one or two large respondents. In these cases, it may be possible for a knowledgeable person to estimate the information reported by a specific respondent.

In addition to the use of the information by EIA for statistical purposes, the information may be made available, upon request, to other Federal agencies authorized by law to receive such information for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Company specific data are also provided to other DOE offices for the purpose of examining specific petroleum operations in the context of emergency response planning and actual emergencies.

## Northeast Reserves

Reserves inventories are not considered to be in the commercial sector and are excluded from EIA's commercial motor gasoline and distillate fuel oil supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

### Northeast Home Heating Oil Reserve classified as ultra-low sulfur distillate (15 parts per million)

Terminal Operator	Location	Thousand Barrels
Buckeye Partners LP	Port Reading, NJ	300
Buckeye Partners LP	Groton, CT	300
Global Companies LLC	Revere, MA	400

Source: U. S. Energy Information Administration

### Northeast Regional Refined Petroleum Product Reserve motor gasoline products

Terminal Operator	Location	Thousand Barrels
Kinder Morgan Liq Terminals LLC	Carteret, NJ	200
Buckeye Terminals LLC	Port Reading, NJ	0
Buckeye Terminals LLC	Raritan Bay, NJ	500
Global Companies LLC	Revere, MA	200
South Portland Terminal LLC	South Portland, ME	99

Source: U. S. Energy Information Administration

Other reserves information from the U.S. Department of Energy, Office of Petroleum Reserves can be found at <http://energy.gov/fe/services/petroleum-reserves/>

## State of New York's Strategic Fuels Reserve Program

State reserve inventories are also not considered to be in the commercial sector and are excluded from EIA's commercial inventories and are excluded from supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

Product	Location	Thousand Barrels
Motor Gasoline Blending Components	NY	88
Fuel Ethanol	NY	10
Distillate Fuel Oil, 15 ppm Sulfur and Under	NY	34

Source: New York State Energy Research & Development Authority

# Definitions of Petroleum Products and Other Terms

(Revised May 2010)

**Alcohol.** The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group;  $\text{CH}_3\text{-(CH}_2\text{)}_n\text{-OH}$  (e.g., methanol, ethanol, and tertiary butyl alcohol).

**Alkylate.** The product of an alkylation reaction. It usually refers to the high octane product from alkylation units. This alkylate is used in blending high octane gasoline.

**Alkylation.** A refining process for chemically combining isobutane with olefin hydrocarbons (e.g., propylene, butylene) through the control of temperature and pressure in the presence of an acid catalyst, usually sulfuric acid or hydrofluoric acid. The product, alkylate, an isoparaffin, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

**All Other Motor Gasoline Blending Components. See Motor Gasoline Blending Components.**

**API Gravity.** An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

$$\text{Degrees API} = \frac{141.5}{\text{sp. gr. @ } 60^\circ \text{ F}} - 131.5$$

The higher the API gravity, the lighter the compound. Light crudes generally exceed 38 degrees API and heavy crudes are commonly labeled as all crudes with an API gravity of 22 degrees or below. Intermediate crudes fall in the range of 22 degrees to 38 degrees API gravity.

**Aromatics.** Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene (BTX).

**Asphalt.** A dark-brown-to-black cement-like material containing bitumens as the predominant constituent obtained by petroleum processing; used primarily for road construction. It includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. Note: The conversion factor for asphalt is 5.5 barrels per short ton.

**ASTM.** The acronym for the American Society for Testing and Materials.

**Atmospheric Crude Oil Distillation.** The refining process of separating crude oil components at atmospheric pressure by heating to temperatures of about 600 degrees Fahrenheit to 750 degrees Fahrenheit (depending on the nature of the crude oil and desired products) and subsequent condensing of the fractions by cooling.

**Aviation Gasoline (Finished).** A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating

engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. Note: Data on blending components are not counted in data on finished aviation gasoline.

**Aviation Gasoline Blending Components.** Naphthas which will be used for blending or compounding into finished aviation gasoline (e.g., straight-run gasoline, alkylate, reformat, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus. Oxygenates are reported as other hydrocarbons, hydrogen, and oxygenates.

**Barrel.** A unit of volume equal to 42 U.S. gallons.

**Barrels Per Calendar Day.** The amount of input that a distillation facility can process under usual operating conditions. The amount is expressed in terms of capacity during a 24-hour period and reduces the maximum processing capability of all units at the facility under continuous operation (see **Barrels per Stream Day**) to account for the following limitations that may delay, interrupt, or slow down production:

the capability of downstream facilities to absorb the output of crude oil processing facilities of a given refinery. No reduction is made when a planned distribution of intermediate streams through other than downstream facilities is part of a refinery's normal operation;

the types and grades of inputs to be processed;

the types and grades of products expected to be manufactured;

the environmental constraints associated with refinery operations;

the reduction of capacity for scheduled downtime due to such conditions as routine inspection, maintenance, repairs, and turnaround; and

the reduction of capacity for unscheduled downtime due to such conditions as mechanical problems, repairs, and slowdowns.

**Barrels Per Stream Day.** The maximum number of barrels of input that a distillation facility can process within a 24-hour period when running at full capacity under optimal crude and product slate conditions with no allowance for downtime.

**Benzene ( $\text{C}_6\text{H}_6$ ).** An aromatic hydrocarbon present in small proportion in some crude oils and made commercially from petroleum by the catalytic reforming of naphthenes in petroleum naphtha. Also made from coal in the manufacture of coke. Used as a solvent, in manufacturing detergents, synthetic fibers, and petrochemicals and as a component of high-octane gasoline.

**Biomass-Based Diesel Fuel.** Biodiesel and other renewable diesel fuel or diesel fuel blending components derived from biomass, but excluding renewable diesel fuel coprocessed with petroleum

feedstocks.

**Blending Components.** See *Motor or Aviation Gasoline Blending Components*.

**Blending Plant.** A facility which has no refining capability but is either capable of producing finished motor gasoline through mechanical blending or blends oxygenates with motor gasoline.

**Bonded Petroleum Imports.** Petroleum imported and entered into Customs bonded storage. These imports are not included in the import statistics until they are: (1) withdrawn from storage free of duty for use as fuel for vessels and aircraft engaged in international trade; or (2) withdrawn from storage with duty paid for domestic use.

**BTX.** The acronym for the commercial petroleum aromatics benzene, toluene, and xylene. See individual categories for definitions.

**Bulk Station.** A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of less than 50,000 barrels and receives its petroleum products by tank car or truck.

**Bulk Terminal.** A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of 50,000 barrels or more and/or receives petroleum products by tanker, barge, or pipeline.

**Butane ( $C_4H_{10}$ ).** A normally gaseous straight-chain or branch-chain hydrocarbon extracted from natural gas or refinery gas streams. It includes normal butane and refinery-grade butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

**Normal Butane ( $C_4H_{10}$ ).** A normally gaseous straight-chain hydrocarbon that is a colorless paraffinic gas which boils at a temperature of 31.1 degrees Fahrenheit and is extracted from natural gas or refinery gas streams.

**Refinery-Grade Butane ( $C_4H_{10}$ ).** A refinery-produced stream that is composed predominantly of normal butane and/or isobutane and may also contain propane and/or natural gasoline. These streams may also contain significant levels of olefins and/or fluorides contamination.

**Butylene ( $C_4H_8$ ).** An olefinic hydrocarbon recovered from refinery processes.

**Captive Refinery Oxygenate Plants.** Oxygenate production facilities located within or adjacent to a refinery complex.

**Catalytic Cracking.** The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil. Catalytic cracking processes fresh feeds and recycled feeds.

**Fresh Feeds.** Crude oil or petroleum distillates which are being fed to processing units for the first time.

**Recycled Feeds.** Feeds that are continuously fed back for additional processing.

**Catalytic Hydrocracking.** A refining process that uses hydrogen and catalysts with relatively low temperatures and high pressures for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, jet fuel, and/or high grade fuel oil. The process uses one or more catalysts, depending upon product output, and can handle high sulfur feedstocks without prior desulfurization.

**Catalytic Hydrotreating.** A refining process for treating petroleum fractions from atmospheric or vacuum distillation units (e.g., naphthas, middle distillates, reformer feeds, residual fuel oil, and heavy gas oil) and other petroleum (e.g., cat cracked naphtha, coker naphtha, gas oil, etc.) in the presence of catalysts and substantial quantities of hydrogen. Hydrotreating includes desulfurization, removal of substances (e.g., nitrogen compounds) that deactivate catalysts, conversion of olefins to paraffins to reduce gum formation in gasoline, and other processes to upgrade the quality of the fractions.

**Catalytic Reforming.** A refining process using controlled heat and pressure with catalysts to rearrange certain hydrocarbon molecules, thereby converting paraffinic and naphthenic type hydrocarbons (e.g., low-octane gasoline boiling range fractions) into petrochemical feedstocks and higher octane stocks suitable for blending into finished gasoline. Catalytic reforming is reported in two categories. They are:

**Low Pressure.** A processing unit operating at less than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

**High Pressure.** A processing unit operating at either equal to or greater than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

**Charge Capacity.** The input (feed) capacity of the refinery processing facilities.

**Coal.** A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

**Commercial Kerosene-Type Jet Fuel.** See *Kerosene-Type Jet Fuel*.

**Conventional Blendstock for Oxygenate Blending (CBOB).** See *Motor Gasoline Blending Components*.

**Conventional Gasoline.** See *Motor Gasoline (Finished)*.

**Crude Oil.** A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include:

Small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled

with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included;

Small amounts of nonhydrocarbons produced from oil, such as sulfur and various metals;

Drip gases, and liquid hydrocarbons produced from tar sands, oil sands, gilsonite, and oil shale.

Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude oil is considered as either domestic or foreign, according to the following:

**Domestic.** Crude oil produced in the United States or from its Outer continental shelf as defined in 43 USC 1331.

**Foreign.** Crude oil produced outside the United States. Imported Athabasca hydrocarbons (tar sands from Canada) are included.

**Crude Oil, Refinery Receipts.** Receipts of domestic and foreign crude oil at a refinery. Includes all crude oil in transit except crude oil in transit by pipeline. Foreign crude oil is reported as a receipt only after entry through customs. Crude oil of foreign origin held in bonded storage is excluded.

**Crude Oil Losses.** Represents the volume of crude oil reported by petroleum refineries as being lost in their operations. These losses are due to spills, contamination, fires, etc. as opposed to refinery processing losses.

**Crude Oil Production.** The volume of crude oil produced from oil reservoirs during given periods of time. The amount of such production for a given period is measured as volumes delivered from lease storage tanks (i.e., the point of custody transfer) to pipelines, trucks, or other media for transport to refineries or terminals with adjustments for (1) net differences between opening and closing lease inventories, and (2) basic sediment and water (BS&W).

**Crude Oil Qualities.** Refers to two properties of crude oil, the sulfur content and API gravity, which affect processing complexity and product characteristics.

**Delayed Coking.** A process by which heavier crude oil fractions can be thermally decomposed under conditions of elevated temperatures and pressure to produce a mixture of lighter oils and petroleum coke. The light oils can be processed further in other refinery units to meet product specifications. The coke can be used either as a fuel or in other applications such as the manufacturing of steel or aluminum.

**Desulfurization.** The removal of sulfur, as from molten metals, petroleum oil, or flue gases. Petroleum desulfurization is a process that removes sulfur and its compounds from various streams during the refining process. Desulfurization processes include catalytic hydrotreating and other chemical/physical processes such

as adsorption. Desulfurization processes vary based on the type of stream treated (e.g., naphtha, distillate, heavy gas oil, etc.) and the amount of sulfur removed (e.g., sulfur reduction to 10 ppm). See *Catalytic Hydrotreating*.

**Disposition.** The components of petroleum disposition are stock change, crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

**Distillate Fuel Oil.** A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.

**No. 1 Distillate.** A light petroleum distillate that can be used as either a diesel fuel or a fuel oil.

**No. 1 Diesel Fuel.** A light distillate fuel oil that has a distillation temperature of 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high speed diesel engines generally operated under frequent speed and load changes, such as those in city buses and similar vehicles. See *No. 1 Distillate*.

**No. 1 Fuel Oil.** A light distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used primarily as fuel for portable outdoor stoves and portable outdoor heaters. See *No. 1 Distillate*.

**No. 2 Distillate.** A petroleum distillate that can be used as either a diesel fuel or a fuel oil.

**No. 2 Diesel Fuel.** A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high-speed diesel engines that are generally operated under uniform speed and load conditions, such as those in railroad locomotives, trucks, and automobiles. See *No. 2 Distillate*.

**Low Sulfur No. 2 Diesel Fuel.** No. 2 diesel fuel that has a sulfur level no higher than 0.05 percent by weight. It is used primarily in motor vehicle diesel engines for on-highway use.

**High Sulfur No. 2 Diesel Fuel.** No. 2 diesel fuel that has a sulfur level above 0.05 percent by weight.

**No. 2 Fuel Oil (Heating Oil).** A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used in



atomizing type burners for domestic heating or for moderate capacity commercial/industrial burner units. See **No. 2 Distillate**.

**No. 4 Fuel.** A distillate fuel oil made by blending distillate fuel oil and residual fuel oil stocks. It conforms to ASTM Specification D 396 or Federal Specification VV-F-815C and is used extensively in industrial plants and in commercial burner installations that are not equipped with preheating facilities. It also includes No. 4 diesel fuel used for low- and medium-speed diesel engines and conforms to ASTM Specification D 975.

**No. 4 Diesel Fuel.** See **No. 4 Fuel**.

**No. 4 Fuel Oil.** See **No. 4 Fuel**.

**Electricity (Purchased).** Electricity purchased for refinery operations that is not produced within the refinery complex.

**Ending Stocks.** Primary stocks of crude oil and petroleum products held in storage as of 12 midnight on the last day of the month. Primary stocks include crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tank farms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in-transit by water from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage.

**ETBE (Ethyl tertiary butyl ether) (CH<sub>3</sub>)<sub>3</sub>COC<sub>2</sub>H<sub>5</sub>.** An oxygenate blend stock formed by the catalytic etherification of isobutylene with ethanol.

**Ethane (C<sub>2</sub>H<sub>6</sub>).** A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 127.48 degrees Fahrenheit. It is extracted from natural gas and refinery gas streams.

**Ether.** A generic term applied to a group of organic chemical compounds composed of carbon, hydrogen, and oxygen, characterized by an oxygen atom attached to two carbon atoms (e.g., methyl tertiary butyl ether).

**Ethylene (C<sub>2</sub>H<sub>4</sub>).** An olefinic hydrocarbon recovered from refinery processes or petrochemical processes. Ethylene is used as a petrochemical feedstock for numerous chemical applications and the production of consumer goods.

**Exports.** Shipments of crude oil and petroleum products from the 50 States and the District of Columbia to foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

**Field Production.** Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, new supply of other hydrocarbons/oxygenates and motor gasoline blending components, and fuel ethanol blended into finished motor gasoline.

**Flexicoking.** A thermal cracking process which converts heavy

hydrocarbons such as crude oil, tar sands bitumen, and distillation residues into light hydrocarbons. Feedstocks can be any pumpable hydrocarbons including those containing high concentrations of sulfur and metals.

**Fluid Coking.** A thermal cracking process utilizing the fluidized-solids technique to remove carbon (coke) for continuous conversion of heavy, low-grade oils into lighter products.

**Fresh Feed Input.** Represents input of material (crude oil, unfinished oils, natural gas liquids, other hydrocarbons and oxygenates or finished products) to processing units at a refinery that is being processed (input) into a particular unit for the first time.

Examples:

(1.) Unfinished oils coming out of a crude oil distillation unit which are input into a catalytic cracking unit are considered fresh feed to the catalytic cracking unit.

(2.) Unfinished oils coming out of a catalytic cracking unit being looped back into the same catalytic cracking unit to be reprocessed are not considered fresh feed.

**Fuel Ethanol (C<sub>2</sub>H<sub>5</sub>OH).** An anhydrous alcohol (ethanol with less than 1% water) intended for gasoline blending as described in Oxygenates definition.

**Fuels Solvent Deasphalting.** A refining process for removing asphalt compounds from petroleum fractions, such as reduced crude oil. The recovered stream from this process is used to produce fuel products.

**Gas Oil.** A liquid petroleum distillate having a viscosity intermediate between that of kerosene and lubricating oil. It derives its name from having originally been used in the manufacture of illuminating gas. It is now used to produce distillate fuel oils and gasoline.

**Gasohol.** A blend of finished motor gasoline containing alcohol (generally ethanol but sometimes methanol) at a concentration of 10 percent or less by volume. Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside carbon monoxide nonattainment areas are included in data on oxygenated gasoline. See **Oxygenates**.

**Gasoline Blending Components.** Naphthas which will be used for blending or compounding into finished aviation or motor gasoline (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

**Gasoline Treated as Blendstock (GTAB).** See **Motor Gasoline Blending Components**.

**Gross Input to Atmospheric Crude Oil Distillation Units.** Total input to atmospheric crude oil distillation units. Includes all crude oil, lease condensate, natural gas plant liquids, unfinished oils, liquefied refinery gases, slop oils, and other liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

**Heavy Gas Oil.** Petroleum distillates with an approximate boiling

range from 651 degrees Fahrenheit to 1000 degrees Fahrenheit.

**High-Sulfur Distillate Fuel Oil.** Distillate fuel oil having sulfur content greater than 500 ppm.

**Hydrogen.** The lightest of all gases, occurring chiefly in combination with oxygen in water; exists also in acids, bases, alcohols, petroleum, and other hydrocarbons.

**Idle Capacity.** The component of operable capacity that is not in operation and not under active repair, but capable of being placed in operation within 30 days; and capacity not in operation but under active repair that can be completed within 90 days.

**Imported Crude Oil Burned As Fuel.** The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. Imported crude oil burned as fuel includes lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

**Imports.** Receipts of crude oil and petroleum products into the 50 States and the District of Columbia from foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

**Isobutane ( $C_4H_{10}$ ).** A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams.

**Isobutylene ( $C_4H_8$ ).** An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

**Isohexane ( $C_6H_{14}$ ).** A saturated branch-chain hydrocarbon. It is a colorless liquid that boils at a temperature of 156.2 degrees Fahrenheit.

**Isomerization.** A refining process which alters the fundamental arrangement of atoms in the molecule without adding or removing anything from the original material. Used to convert normal butane into isobutane ( $C_4$ ), an alkylation process feedstock, and normal pentane and hexane into isopentane ( $C_5$ ) and isohexane ( $C_6$ ), high-octane gasoline components.

**Isopentane.** See *Natural Gasoline and Isopentane*.

**Kerosene.** A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil. See *Kerosene-Type Jet Fuel*.

**Kerosene-Type Jet Fuel.** A kerosene-based product having a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point and a final maximum boiling point of 572 degrees Fahrenheit and meeting ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is used for commercial and military turbojet and turboprop aircraft engines.

**Commercial.** Kerosene-type jet fuel intended for use in commercial aircraft.

**Military.** Kerosene-type jet fuel intended for use in military aircraft.

**Lease Condensate.** A mixture consisting primarily of pentanes and heavier hydrocarbons which is recovered as a liquid from natural gas in lease separation facilities. This category excludes natural gas liquids, such as butane and propane, which are recovered at downstream natural gas processing plants or facilities. See *Natural Gas Liquids*.

**Light Gas Oils.** Liquid Petroleum distillates heavier than naphtha, with an approximate boiling range from 401 degrees Fahrenheit to 650 degrees Fahrenheit.

**Liquefied Petroleum Gases (LPG).** A group of hydrocarbon-based gases derived from crude oil refining or natural gas fractionation. They include: ethane, ethylene, propane, propylene, normal butane, butylene, isobutane, and isobutylene. For convenience of transportation, these gases are liquefied through pressurization.

**Liquefied Refinery Gases (LRG).** Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration, they are retained in the liquid state. The reported categories are ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene. Excludes still gas.

**Low-Sulfur Distillate Fuel Oil.** Distillate fuel oil having sulfur content greater than 15 ppm to 500 ppm. Low sulfur distillate fuel oil also includes product with sulfur content equal to or less than 15 ppm if the product is intended for pipeline shipment and the pipeline has a sulfur specification below 15 ppm.

**Lubricants.** Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacture of other products, or used as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Lubricants include all grades of lubricating oils from spindle oil to cylinder oil and those used in greases.

**Merchant Oxygenate Plants.** Oxygenate production facilities that are not associated with a petroleum refinery. Production from these facilities is sold under contract or on the spot market to refiners or other gasoline blenders.

**Methanol ( $CH_3OH$ ).** A light, volatile alcohol intended for gasoline blending as described in Oxygenate definition.

**Middle Distillates.** A general classification of refined petroleum products that includes distillate fuel oil and kerosene.

**Military Kerosene-Type Jet Fuel.** See *Kerosene-Type Jet Fuel*.

**Miscellaneous Products.** Includes all finished products not classified elsewhere (e.g., petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils). Note:

Beginning with January 2004 data, naphtha-type jet fuel is included in Miscellaneous Products.

**Motor Gasoline (Finished).** A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition engines. Motor gasoline, as defined in ASTM Specification D 4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122 to 158 degrees Fahrenheit at the 10 percent recovery point to 365 to 374 degrees Fahrenheit at the 90 percent recovery point. "Motor Gasoline" includes conventional gasoline; all types of oxygenated gasoline, including gasohol; and reformulated gasoline, but excludes aviation gasoline. Volumetric data on blending components, such as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline. Note: E85 is included only in volumetric data on finished motor gasoline production and other components of product supplied.

**Conventional Gasoline.** Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. Note: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

**Ed 55 and Lower.** Finished conventional motor gasoline blended with a maximum of 55 volume percent denatured fuel ethanol.

**Greater than Ed55.** Finished conventional motor gasoline blended with denatured fuel ethanol where the volume percent of denatured fuel ethanol exceeds 55%.

**OPRG.** "Oxygenated Fuels Program Reformulated Gasoline" is reformulated gasoline which is intended for use in an oxygenated fuels program control area.

**Oxygenated Gasoline (Including Gasohol).** Oxygenated gasoline includes all finished motor gasoline, other than reformulated gasoline, having oxygen content of 2.0 percent or higher by weight. Gasohol containing a minimum 5.7 percent ethanol by volume is included in oxygenated gasoline. Oxygenated gasoline was reported as a separate product from January 1993 until December 2003 inclusive. Beginning with monthly data for January 2004, oxygenated gasoline is included in conventional gasoline. Historical data for oxygenated gasoline excluded Federal Oxygenated Program Reformulated Gasoline (OPRG). Historical oxygenated gasoline data also excluded other reformulated gasoline with a seasonal oxygen requirement regardless of season.

**Reformulated Gasoline.** Finished gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. It includes gasoline produced to meet or exceed emissions performance and benzene content standards of federal-program reformulated gasoline even though the gasoline

may not meet all of the composition requirements (e.g., oxygen content) of federal-program reformulated gasoline. Note: This category includes Oxygenated Fuels Program Reformulated Gasoline (OPRG). Reformulated gasoline excludes Reformulated Blendstock for Oxygenate Blending (RBOB) and Gasoline Treated as Blendstock (GTAB).

**Reformulated (Blended with Alcohol).** Reformulated gasoline blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content.

**Reformulated (Blended with Ether).** Reformulated gasoline blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content.

**Reformulated (Non-Oxygenated).** Reformulated gasoline without added ether or alcohol components.

**Motor Gasoline Blending.** Mechanical mixing of motor gasoline blending components, and oxygenates when required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

**Motor Gasoline Blending Components.** Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock for oxygenate blending (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. Note: Oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

**Conventional Blendstock for Oxygenate Blending (CBOB).** Conventional gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. CBOB must become conventional gasoline after blending with oxygenates. Motor gasoline blending components that require blending other than with oxygenates to become finished conventional gasoline are reported as All Other Motor Gasoline Blending Components. Excludes reformulated blendstock for oxygenate blending (RBOB).

**Gasoline Treated as Blendstock (GTAB).** Non-certified Foreign Refinery gasoline classified by an importer as blendstock to be either blended or reclassified with respect to reformulated or conventional gasoline. GTAB was classified on EIA surveys as either reformulated or conventional based on emissions performance and the intended end use in data through the end of December 2009. Designation of GTAB as reformulated or conventional was discontinued beginning with data for January 2010. GTAB was reported as a single product beginning with data for January 2010. GTAB data for January 2010 and later months is presented as conventional

motor gasoline blending components when reported as a subset of motor gasoline blending components.

**Reformulated Blendstock for Oxygenate Blending (RBOB).** Specially produced reformulated gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. Includes RBOB used to meet requirements of the Federal reformulated gasoline program and other blendstock intended for blending with oxygenates to produce finished gasoline that meets or exceeds emissions performance requirements of Federal reformulated gasoline (e.g., California RBOB and Arizona RBOB). Excludes conventional gasoline blendstocks for oxygenate blending (CBOB).

**RBOB for Blending with Alcohol.** Motor gasoline blending components intended to be blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

**RBOB for Blending with Ether.** Motor gasoline blending components intended to be blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

**All Other Motor Gasoline Blending Components.** Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. Includes receipts and inputs of Gasoline Treated as Blendstock (GTAB). Excludes conventional blendstock for oxygenate blending (CBOB), reformulated blendstock for oxygenate blending, oxygenates (e.g. fuel ethanol and methyl tertiary butyl ether), butane, and pentanes plus.

**MTBE (Methyl tertiary butyl ether)  $(CH_3)_3COCH_3$ .** An ether intended for gasoline blending as described in Oxygenate definition.

**Naphtha.** A generic term applied to a petroleum fraction with an approximate boiling range between 122 degrees Fahrenheit and 400 degrees Fahrenheit.

**Naphtha Less Than 401° F.** See *Petrochemical Feedstocks*.

**Naphtha-Type Jet Fuel.** A fuel in the heavy naphtha boiling range having an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees Fahrenheit, and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used primarily for military turbojet and turboprop aircraft engines because it has a lower freeze point than other aviation fuels and meets engine requirements at high altitudes and speeds. Note: Beginning with January 2004 data, naphtha-type jet fuel is included in *Miscellaneous Products*.

**Natural Gas.** A gaseous mixture of hydrocarbon compounds, the primary one being **methane**.

**Natural Gas Field Facility.** A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, normal butane, pentanes plus, etc., and to control the quality of natural gas to be marketed.

**Natural Gas Liquids.** Those hydrocarbons in natural gas that are separated from the gas as liquids through the process of absorption, condensation, adsorption, or other methods in gas processing or cycling plants. Generally such liquids consist of propane and heavier hydrocarbons and are commonly referred to as lease condensate, natural gasoline, and liquefied petroleum gases. Natural gas liquids include natural gas plant liquids (primarily ethane, propane, butane, and isobutane; see *Natural Gas Plant Liquids*) and lease condensate (primarily pentanes produced from natural gas at lease separators and field facilities; see *Lease Condensate*).

**Natural Gas Plant Liquids.** Those hydrocarbons in natural gas that are separated as liquids at natural gas processing plants, fractionating and cycling plants, and, in some instances, field facilities. Lease condensate is excluded. Products obtained include ethane; liquefied petroleum gases (propane, butanes, propane-butane mixtures, ethane-propane mixtures); isopentane; and other small quantities of finished products, such as motor gasoline, special naphthas, jet fuel, kerosene, and distillate fuel oil.

**Natural Gas Processing Plant.** Facilities designed to recover natural gas liquids from a stream of natural gas that may or may not have passed through lease separators and/or field separation facilities. These facilities control the quality of the natural gas to be marketed. Cycling plants are classified as gas processing plants.

**Natural Gasoline and Isopentane.** A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane which is a saturated branch-chain hydrocarbon,  $(C_5H_{12})$ , obtained by fractionation of natural gasoline or isomerization of normal pentane.

**Net Receipts.** The difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge.

**Normal Butane.** See *Butane*.

**OPEC.** An intergovernmental organization whose stated objective is to coordinate and unify petroleum policies of member countries. It was created at the Baghdad Conference on September 10–14, 1960. Current members (with years of membership) include Algeria (1969-present), Angola (2007-present), Ecuador (1973-1992 and 2007-present), Gabon (1975-1994 and July, 2016-present), Indonesia (1962-2008 and January, 2016-November, 2016), Iran (1960-present), Iraq (1960-present), Kuwait (1960-present), Libya (1962-present), Nigeria (1971-present), Qatar (1961-present), Saudi Arabia (1960-present), United Arab Emirates (1967-present), and Venezuela (1960-present).

**Operable Capacity.** The amount of capacity that, at the beginning of the period, is in operation; not in operation and not under active repair, but capable of being placed in operation within 30 days; or not in operation but under active repair that can be completed within 90 days. Operable capacity is the sum of the operating and idle capacity and is measured in barrels per calendar day or barrels per stream day.

**Operable Utilization Rate.** Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operable refining capacity of the units.

**Operating Capacity.** The component of operable capacity that is in operation at the beginning of the period.

**Operating Utilization Rate.** Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operating refining capacity of the units.

**Other Hydrocarbons.** Materials received by a refinery and consumed as a raw material. Includes hydrogen, coal tar derivatives and gilsonite. Excludes natural gas used for fuel or hydrogen feedstock.

**Other Oils Equal To or Greater Than 401° F.** See *Petrochemical Feedstocks*.

**Other Oxygenates.** Other aliphatic alcohols and aliphatic ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

**Oxygenated Gasoline.** See *Motor Gasoline (Finished)*.

**Oxygenates.** Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Fuel Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

**Fuel Ethanol.** Blends of up to 10 percent by volume anhydrous ethanol (200 proof) (commonly referred to as the “gasohol waiver”).

**Methanol.** Blends of methanol and gasoline-grade tertiary butyl alcohol (GTBA) such that the total oxygen content does not exceed 3.5 percent by weight and the ratio of methanol to GTBA is less than or equal to 1. It is also specified that this blended fuel must meet ASTM volatility specifications (commonly referred to as the “ARCO” waiver).

Blends of up to 5.0 percent by volume methanol with a minimum of 2.5 percent by volume cosolvent alcohols having a carbon number of 4 or less (i.e., ethanol, propanol, butanol, and/or GTBA). The total oxygen must not exceed 3.7 percent by weight, and the blend must meet ASTM volatility specifications as well as phase separation and alcohol purity specifications (commonly referred to as the “DuPont” waiver).

**MTBE (Methyl tertiary butyl ether).** Blends up to 15.0 percent by volume MTBE which must meet the ASTM D4814 specifications. Blenders must take precautions that

the blends are not used as base gasolines for other oxygenated blends (commonly referred to as the “Sun” waiver).

**Pentanes Plus.** A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

**Persian Gulf.** The countries that comprise the Persian Gulf are: Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates.

**Petrochemical Feedstocks.** Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. The categories reported are “Naphtha Less Than 401° F” and “Other Oils Equal To or Greater Than 401° F.”

**Naphtha Less Than 401° F.** A naphtha with a boiling range of less than 401 degrees Fahrenheit that is intended for use as a petrochemical feedstock.

**Other Oils Equal To or Greater Than 401° F.** Oils with a boiling range equal to or greater than 401 degrees Fahrenheit that are intended for use as a petrochemical feedstock.

**Petroleum Administration for Defense (PAD) Districts.** Geographic aggregations of the 50 States and the District of Columbia into five districts by the Petroleum Administration for Defense in 1950. These districts were originally defined during World War II for purposes of administering oil allocation.

**Petroleum Coke.** A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton. Coke from petroleum has a heating value of 6.024 million Btu per barrel.

**Catalyst Coke.** In many catalytic operations (e.g., catalytic cracking) carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refining process. This carbon or coke is not recoverable in a concentrated form.

**Marketable Coke.** Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This “green” coke may be sold as is or further purified by calcining.

**Petroleum Products.** Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

**Pipeline (Petroleum).** Crude oil and product pipelines used to transport crude oil and petroleum products respectively, (including interstate, intrastate, and intracompany pipelines) within the 50 States and the District of Columbia.

**Plant Condensate.** One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

**Processing Gain.** The volumetric amount by which total output is greater than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a lower specific gravity than the crude oil processed.

**Processing Loss.** The volumetric amount by which total refinery output is less than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a higher specific gravity than the crude oil processed.

**Product Supplied, Crude Oil.** Crude oil burned on leases and by pipelines as fuel.

**Production Capacity.** The maximum amount of product that can be produced from processing facilities.

**Products Supplied.** Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted for crude oil, (plus net receipts when calculated on a PAD District basis), minus stock change, minus crude oil losses, minus refinery inputs, minus exports.

**Propane ( $C_3H_8$ ).** A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 43.67 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

**Propylene ( $C_3H_6$ ).** An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

**Propylene ( $C_3H_6$ ) (nonfuel use).** Propylene that is intended for use in nonfuel applications such as petrochemical manufacturing. Nonfuel use propylene includes chemical-grade propylene, polymer-grade propylene, and trace amounts of propane. Nonfuel use propylene also includes the propylene component of propane/propylene mixes where the propylene will be separated from the mix in a propane/propylene splitting process. Excluded is the propylene component of propane/propylene mixes where the propylene component of the mix is intended for sale into the fuel market.

**Refinery.** An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and oxygenates.

**Refinery-Grade Butane.** See *Butane*.

**Refinery Input, Crude Oil.** Total crude oil (domestic plus foreign) input to crude oil distillation units and other refinery processing units (cokers, etc.).

**Refinery Input, Total.** The raw materials and intermediate materials processed at refineries to produce finished petroleum products. They include crude oil, products of natural gas processing plants, unfinished oils, other hydrocarbons and oxygenates, motor gasoline and aviation gasoline blending components and finished petroleum products.

**Refinery Production.** Petroleum products produced at a refinery or blending plant. Published production of these products equals refinery production minus refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. Refinery production of unfinished oils, and motor and aviation gasoline blending components appear on a net basis under refinery input.

**Refinery Yield.** Refinery yield (expressed as a percentage) represents the percent of finished product produced from input of crude oil and net input of unfinished oils. It is calculated by dividing the sum of crude oil and net unfinished input into the individual net production of finished products. Before calculating the yield for finished motor gasoline, the input of natural gas liquids, other hydrocarbons and oxygenates, and net input of motor gasoline blending components must be subtracted from the net production of finished motor gasoline. Before calculating the yield for finished aviation gasoline, input of aviation gasoline blending components must be subtracted from the net production of finished aviation gasoline.

**Reformulated Blendstock for Oxygenate Blending (RBOB).** See *Motor Gasoline Blending Components*.

**Reformulated Gasoline.** See *Motor Gasoline (Finished)*.

**Renewable Fuels (Other).** Fuels and fuel blending components, except biomass-based diesel fuel, renewable diesel fuel, and fuel ethanol, produced from renewable biomass.

**Residual Fuel Oil.** A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

**Residuum.** Residue from crude oil after distilling off all but the heaviest components, with a boiling range greater than 1000 degrees Fahrenheit.

**Road Oil.** Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades from 0, the most liquid, to 5, the most viscous.

**Shell Storage Capacity.** The design capacity of a petroleum storage tank which is always greater than or equal to working storage capacity. Special Naphthas. All finished products within the naphtha boiling range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specification D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

**Steam (Purchased).** Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

**Still Gas (Refinery Gas).** Any form or mixture of gases produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, propylene, etc. Still gas is used as a refinery fuel and a petrochemical feedstock. The conversion factor is 6 million BTU's per fuel oil equivalent barrel.

**Stock Change.** The difference between stocks at the beginning of the reporting period and stocks at the end of the reporting period. Note: A negative number indicates a decrease (i.e., a drawdown) in stocks and a positive number indicates an increase (i.e., a buildup) in stocks during the reporting period.

**Strategic Petroleum Reserve (SPR).** Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

**Sulfur.** A yellowish nonmetallic element, sometimes known as "brimstone." It is present at various levels of concentration in many fossil fuels whose combustion releases sulfur compounds that are considered harmful to the environment. Some of the most commonly used fossil fuels are categorized according to their sulfur content, with lower sulfur fuels usually selling at a higher price. Note: No. 2 Distillate fuel is currently reported as having either a 0.05 percent or lower sulfur level for on-highway vehicle use or a greater than 0.05 percent sulfur level for off-highway use, home heating oil, and commercial and industrial uses. Residual fuel, regardless of use, is classified as having either no more than 1 percent sulfur or greater than 1 percent sulfur. Coal is also classified as being low-sulfur at concentrations of 1 percent or less or high-sulfur at concentrations greater than 1 percent.

**Supply.** The components of petroleum supply are field production, refinery production, imports, and net receipts when calculated on a PAD District basis.

**TAME (Tertiary amyl methyl ether)  $(CH_3)_2(C_2H_5)COCH_3$ .** An oxygenate blend stock formed by the catalytic etherification of isoamylene with methanol.

**Tank Farm.** An installation used by gathering and trunk pipeline companies, crude oil producers, and terminal operators (except refineries) to store crude oil.

**Tanker and Barge.** Vessels that transport crude oil or petroleum products. Data are reported for movements between PAD Districts; from a PAD District to the Panama Canal; or from the Panama Canal

to a PAD District.

**TBA (Tertiary butyl alcohol)  $(CH_3)_3COH$ .** An alcohol primarily used as a chemical feedstock, a solvent or feedstock for isobutylene production for MTBE; produced as a co-product of propylene oxide production or by direct hydration of isobutylene.

**Thermal Cracking.** A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking includes gas oil, visbreaking, fluid coking, delayed coking, and other thermal cracking processes (e.g., flexicoking). See individual categories for definition.

**Toluene  $(C_6H_5CH_3)$ .** Colorless liquid of the aromatic group of petroleum hydrocarbons, made by the catalytic reforming of petroleum naphthas containing methyl cyclohexane. A high-octane gasoline-blending agent, solvent, and chemical intermediate, base for TNT.

**Ultra-Low Sulfur Distillate Fuel Oil.** Distillate fuel oil having sulfur content of 15 ppm or lower. Ultra-low sulfur distillate fuel oil that will be shipped by pipeline must satisfy the sulfur specification of the shipping pipeline if the pipeline specification is below 15 ppm. Distillate fuel oil intended for pipeline shipment that fails to meet a pipeline sulfur specification that is below 15 ppm will be classified as low-sulfur distillate fuel oil.

**Unaccounted for Crude Oil.** Represents the arithmetic difference between the calculated supply and the calculated disposition of crude oil. The calculated supply is the sum of crude oil production plus imports minus changes in crude oil stocks. The calculated disposition of crude oil is the sum of crude oil input to refineries, crude oil exports, crude oil burned as fuel, and crude oil losses.

**Unfinished Oils.** All oils requiring further processing, except those requiring only mechanical blending. Unfinished oils are produced by partial refining of crude oil and include naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

**Unfractionated Streams.** Mixtures of unsegregated natural gas liquid components excluding those in plant condensate. This product is extracted from natural gas.

**United States.** The United States is defined as the 50 States and the District of Columbia.

**Vacuum Distillation.** Distillation under reduced pressure (less the atmospheric) which lowers the boiling temperature of the liquid being distilled. This technique with its relatively low temperatures prevents cracking or decomposition of the charge stock.

**Visbreaking.** A thermal cracking process in which heavy atmospheric or vacuum-still bottoms are cracked at moderate temperatures to increase production of distillate products and reduce viscosity of the distillation residues.

**Wax.** A solid or semi-solid material at 77 degrees Fahrenheit consisting of a mixture of hydrocarbons obtained or derived from petroleum fractions, or through a Fischer-Tropsch type process, in which the straight-chained paraffin series predominates. This includes all marketable wax, whether crude or refined, with a congealing point

(ASTM D 938) between 80 (or 85) and 240 degrees Fahrenheit and a maximum oil content (ASTM D 3235) of 50 weight percent.

**Working Storage Capacity.** The difference in volume between the maximum safe fill capacity and the quantity below which pump suction is ineffective (bottoms).

**Xylene ( $C_6H_4(CH_3)_2$ ).** Colorless liquid of the aromatic group of hydrocarbons made the catalytic reforming of certain naphthenic petroleum fractions. Used as high-octane motor and aviation gasoline blending agents, solvents, chemical intermediates. Isomers are metaxylene, orthoxylene, paraxylene.